CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New-York, August 31, 1911.

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

Maine.—Bangor & Aroostook R. R.—The State Railroad Commission has received an application for permission to reconstruct about 18 miles of track along the Ashland branch. M. Burpee, Houlton, Me., is Ch. Engr.

New York.—Delaware & Eastern R. R.—A reorganization of this company has been made to be known by the same name and to carry out the original plan of bringing the line into Schenectady, where a connection will be made with the Boston & Maine. The company owns a franchise covering a section from Margaretville to Schenectady and from Hancock to East Branch.

✚Pennsylvania.—Pittsburg & Lake Erie R. R.—A contract, it is stated, has been let to the ROBERT HILL CONSTRUCTION CO., Connellsville, Pa., for a line which is the connecting link between the two divisions of the railroad and which will handle the traffic originating on the Buckhannon & Northern R. R.

✚Kentucky.—Lexington & Eastern R. R.—A 7-mile extension from Patter's Fork to the head of Wright's Fork, by way of Boone's Fork, will be built, the contract for which has been been let to WINSTON & CO., Richmond, Va.

Ohio.—New York Central Lines, Lake Shore & Michigan Southern Ry. According to press reports a number of improvements, involving the expenditure of about $11,000,000, will be made which includes the diverting of Superior St., the abandonment of Swan Creek and Miami and Erie Canal in the downtown district, the elimination of all its grade crossings, the building of a Union depot to cost $5,000,000, the removal of shops from Collinwood and the centering of the Western shops at Air Line Junction.

Wisconsin.—Fairchild & Northern R. R.—The Wisconsin Ry. Commission has granted the Fairchild & Northeastern R. R. Co. a certificate of convenience and necessity permitting the extension of its railroad from Fairchild to Eau Claire and from Eau Claire to Menomonie, Wis.

✚Wisconsin.—Chicago & Northwestern Ry.—A contract for grading the proposed Omaha division and double-tracking, in the vicinity of Eau Claire, has been awarded to JOHN MARSCH, Iron Mountain, Mich. The contract price is $500,000.

Kansas.—Atchison Topeka & Santa Fe Ry.—Press reports state that this ompany contemplates a new line from Dodge City into the southwestern part of Kansas that heretofore has lacked transportation facilities. The company also, has under consideration considerable double tracking of its main line.

North Dakota.—Grand Trunk Pacific Ry.—A survey is being made to locate line between Frobisher, Sask., and Antler, N. Dak. It was at first thought hat the line would run southwest from robisher to the Crosby branch or to he Sherwood branch and into Minot, ut according to the present plan the ine will go by way of Rugby.

✚Arizona.—El Paso & Southwestern R. R.—Additional sub contracts for oncrete work have been awarded by MacArthur Bros. Co., as follows: ections 16 to 20 for five miles awarded to the CONCRETE CONSTRUCTION CO., Tuscon; Sections 21 to 25 awarded o SMITH & LEAVITT, Denver; Sections 14 to 16, awarded to H. G. WILLIAMS, Yuma; Sections 16 to 20, awarded to L. G. KILBECK, and Sections 31 o 33 awarded to CROOK & ALLEN, Denver.

California.—The Malibu Tidewater Ry.—Under the management of this ewly formed company, the construction of a line connecting Oxnard and anta Monica will be attained. N. D. Darlington, Oxnard, Cal., is Ch. Engr.

Saskatchewan.—Chicago, Milwaukee & St. Paul R. R.—A plan to extend the North Dakota branch into Saskatchewan is under consideration. A. J. Earling, Chicago, Ill., is Pres.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

Boston, Mass.—Plans have been approved by the Massachusetts Railway Commission for the construction of the East Cambridge extension from Causeway St., Boston, to Lechmere Square, Cambridge, to be built by the Boston Elevated Ry. Co.

Erving, Mass.—The Miller's River St. Ry., Miller's Falls, has been granted a franchise to build a railway in Erving. F. L. Greene is reported interested.

Newark, N. J.—A franchise to build three extensions in Newark has been applied for by the Public Service Corporation. R. E. Danforth, Newark, is Gen. Mgr.

Wilkes-Barre, Pa.—The Wilkes-Barre Rys. Co. has applied for a franchise to extend its line on North Main St., in Wilkes-Barre to Brookside. E. G. Erwin, Wilkes-Barre, is Supt.

Glendale, W. Va.—A franchise has been granted to the Wheeling Traction Co. to double-track its line through Glendale. G. O. Nagle, Wheeling, is Gen. Mgr.

✚Greenwood, S. C.—The Greenville, Spartanburg & Anderson Ry. Co. has awarded a contract for the construction of a railway between Greenwood and Greenville, to W. J. OLIVER, Knoxville, Tenn. Grading is almost completed, and track laying will begin in a few days.

✚Nashville, Tenn.—The Nashville-Gallatin Interurban Ry. Co. has awarded a contract to CARMICHAEL & SPRADLIN for grading a 12-mile section of its line between Gallatin and Saundersville. H. H. Mayberry, Nashville, is Pres.

Bellefontaine, Ohio.—Rights of way are being secured for a railway connecting Bellefontaine, Columbus and Sidney by the Bellefontaine & Sidney Traction Co. H. T. Mathers, Sidney, is Pres.

Portland, Ind.—Bids will be received by the Fort Wayne & Springfield Ry. Co. until Sept. 15 for the building of a traction line 28 miles long. W. H. Fledderjohann, Studabaker Block, Decatur, Ind., is Pres.

Richmond, Ind.—In addition to the proposed electric interurban line from Richmond to Portland, it is said that the owners of the Indianapolis, Newcastle & Toledo Eectric Ry. Co. have made arrangements for an immediate survey between Newcastle and Richmond by way of Millville, Hagerstown and Greensfork, and that the line will be built next year. M. E. Graston is Gen. Mgr., and Purchasing Agt.

Vincennes, Ind.—Notwithstanding the subsidy election failed in two of the three townships, the Vincennes North & South Traction Co. will proceed to let a contract for the construction of a traction line from Vincennes to Sullivan.

Decatur, Ind.—John H. Koenig, Pres. of the Fort Wayne & Springfield Traction Co., has made an official announcement that a contract would be let in a short time for the construction of an extension of the company's line south to Portland.

Bay City, Mich.—The Saginaw & Flint Ry. Co., Saginaw, has received a franchise to build a railway in Bay City. A. J. Broesbeck made the application, it is stated.

Aurora, Ill.—The Fox & Illinois Union Ry. Co., it is stated, will begin work about Sept. 1, on the construction of its 20-mile electric railway between Yorkville and Morris. H. H. Evans is Pres.; John Meredith is Vice-Pres.; Ralph Putnam is Secy.; A. R. Evans is Treas., and F. M. Zimmerman is Ch. Engr., all of Aurora.

Joliet, Ill.—The Chicago & Joliet Electric Ry. Co. has applied for a franchise to double track and extend several of its lines in Joliet. A. S. Kibbe, Philadelphia, is Ch. Engr.

Elkhorn, Wis.—The Badger Ry. & Light Co. is securing rights of way along the line of Lake Geneva, Elkhorn and Whitewater for a 22-mile railway. A plan is being considered to extend the line to Fort Atkinson. Gustav Pickhardt, Milwaukee, is Ch. Engr.

Waupaca, Wis.—The Waupaca Electric Light & Ry. Co., it is stated, will let contracts for the construction of a branch to the Wisconsin Veterans' Home and to the Waupaca Green Bay Ry.

Wyalusing, Wis.—E. Norwood proposes to build an electric railway from Wyalusing to Shullsburg, by way of Patch Grove, Mount Hope, Bloomington, Lancaster and Plattville.

Albia, Iowa.—The Albia Interurban Ry. contemplates constructing an extension to Buxton. C. B. Judd, Ottumwa, Iowa, is Ch. Engr.

Dallas, Tex.—The Dallas Consolidated Electric Street Ry. Co. contemplates double tracking several of its lines.

Fort Worth, Tex.—The Northern Texas Traction Co. proposes to double-track its line on Evans Ave. Stone & Webster, 147 Milk St., Boston, Mass., are Gen. Mgrs.

Temple, Tex.—Surveys are being made by the Belton & Temple Traction Co., to shorten its line between Belton and Temple.

Waco, Tex.—The Waco Street Ry. Co. will build several miles of railway in Waco, and double-track its line to the exposition grounds, it is reported.

Oklahoma City, Okla.—The Oklahoma City & Eastern R. R. Co. has been chartered to build an electric or steam railway between Oklahoma City and Henryetta, about 90 miles. J. J. Johnson, Charles Hoopes, W. J. House, F. S. Combes and M. L. Spitler are the incorporators.

Phoenix, Ariz.—The Salt River Valley Electric Co. has asked for franchise to construct and maintain for 50 years an electric railroad through the city streets.

Portland, Ore.—The Portland, Eugene & Eastern Ry. Co. has purchased the entire holdings of the Corvallis & Alsea River Ry. and will electrify 18 miles of the line from Corvallis to Monroe. An extension from Monroe to Eugene, about 22 miles, will be built, it is reported.

Berkeley, Cal.—A franchise has been granted to the Oakland Traction Co. for a single or double track extension in Berkeley. W. F. Kelly, Oakland, is Gen. Mgr.

Chico, Cal.—A franchise has been awarded to the Northern Electric Co., for the construction of a line in Ninth St., from its easterly intersection with the city boundaries to Oak St., thence to Fifth St. C. S. Compton, Chico, is Consult. Engr.

Los Angeles, Cal.—A franchise has been asked for by the Los Angeles Ry. Co., to lay tracks on Vernon Ave. and Jefferson St. G. J. Kuhrts, Los Angeles, is Ch. Engr.

Napa, Cal.—The Napa & Clear Lake Ry has made application for a charter to build a railway from Napa to Lakeport, 90 miles. C. W. Conlisk, W. M. Rank and R. A. Morton are the directors.

Sacramento, Cal.—An announcement has been made by the United Properties Co., it is stated, that surveys for the railway projected to connect Sacramento and Oakland are practically completed.

San Diego, Cal.—Articles of incorporation have been filed by the San Diego, El Cajon & Escondido R. R. Co., for the purpose of building 80 miles of interurban railway, connecting San Diego, El Cajon, Lakeside and Escondido.

San Jose, Cal.—The San Jose & Santa Clara County R. R. Co. has made application for a 50-year franchise to build a single or double-track line over the Alameda; also 14th St., this city. W. R. Lawson, Santa Clara, is Mgr.

San Luis Obispo, Cal. — A franchise has been granted to Walter G. Lincoln to build a railway in the city and county of San Luis Obispo. Noted June 22.

London, Ont.—A railway is being discussed to extend from Toronto to London, with connections to St. Thomas. A. H. Campbell, Toronto, is reported interested.

Ottawa, Ont.—The Morrisburg & Ottawa Electric Ry. Co. plans to begin the construction of its electric railway from Ottawa to Morrisburg in the near future.

Toronto, Ont.—The subway committee of the City Council will prepare specifications for the proposed Teraulay subway, for which bids will call about Sept. 15. The subway will start at the corner of Front St. and Bay St. and will run due north under Bay St., Teraulay St. and North St. up to Davenport Road, diverging to the east so as to reach the present level of the east end of Ramsden Park.

Chilliwack, B. C.—A company to be known as the Chilliwack Tramway Co. has been formed to build an electric railway in Chilliwack.

LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

Portland, Me.—The New England Power Co. of Maine has been formed for the development of hydro-electric power in New England. Clarence E. Eaton is Pres.

Clarendon, Vt.—The Rutland Ry., Light & Power Co. will build a dam 96 ft. high and about 110 ft. long, in the lower gorge on the Mill River in Clarendon.

Deerfield, Mass.—Arrangements have been made whereby a portion of the power to be utilized by the Connecticut River Power Co., from the damming of the Deerfield River, will be taken by the Boston & Maine R. R. Co. to operate locomotives through the Hoosac Tunnel. The Deerfield River is to be dammed in four places near Shelburne Falls, Mass., also a reservoir will be created at Somerset, Vt., where water will be impounded to a height of 100 ft. and over an area of approximately six square miles. Arnold B. Chase, Jr., Providence, R. I., and Henry I. Harriman, Boston, are the Engrs.

South Norwalk, Conn.—The Housatonic Power Co. will build an addition, it is reported, on their present coal gas plant here for the manufacture of water gas, which will probably double its present capacity.

Naples, N. Y.—A franchise has been granted to Edward G. Bailey, of Dundee, to install an electric light and power system in Naples.

New York, N. Y.—Bids will be received at the office of the President of the Borough of Manhattan, Room 14, City Hall, until 2 p. m., on Sept. 5, for furnishing and installing electric lighting and power fixtures and wiring in the Harlem Court House building, located at 121st St. and Sylvan Pl., for the alterations and additions to the electric lighting equipment at the Court House building, 314 West 54th St., and for alterations and additions to electric lighting equipment at the Jefferson Market Court House building, 6th Ave. and 9th St. George McAneny is Pres.

New York, N. Y.—Bids in duplicate, will be received at the office of the Quartermaster, U. S. A., Fort Jay, Governors Island, N. Y., until 11 a. m., Sept. 5, for delivering at Pier 12, East River, one Thompson Polyphase watt hour meter, two current transformers, 26 ceiling bands, 24 crystal ball shades and 75½ ft. rubber matting. F. H. Burton is Capt. and Q. M., 29th Infantry.

Bids will be received until Sept. 5 by C. B. J. Snyder, Supt. School Bldgs., New York, for repairs, alterations and additions to the electric equipment in School No. 30, Wadleigh High School and High School of Commerce.

Olean, N. Y.—The Olean Electric Light & Power Co. has been authorized by the Public Service Commission to exercise franchises granted by the towns of Genesee, Portville, Allegany and Olean and the village of Portville to furnish light, heat and power in those places. The company has been empowered to issue a $250,000 mortgage and bonds amounting to $179,000. The plans include a power plant at Ceres, Allegany County.

Philadelphia, Pa.—The Philadelphia Rapid Transit Co. has been granted permits for the erection of a 2-story concrete and brick substation, 65 × 94 ft., at Nos. 1823 to 1829 East Letterly St., to cost $23,000, and a 1-story lumber storage building, 65 × 56 ft., at Nos. 1818 to 1824 East Cumberland St. to cost $7,000. H. B. Nichols, 820 Dauphin St., is Ch. Engr.

Somerset, Pa.—All bids for the construction of a power-house at the new water plant have been rejected. L. E. Chapin, Pittsburgh, is Engr.

Baltimore, Md.—Bids are being received at office of City Register, City Hall, for installation of electric generators and switchboard in the sewerage pumping station. Plans and specifications may be seen at office of Calvin W. Hendrick, Chn. Engr., Sewerage Comn., 904 American Bldg. Apparatus to be furnished: One 35-KW. electric generator and engine, one 15-KW. electric generator and engine; one switchboard and connections. Charles England is Chn.

Cumberland, Md.—The West Virginia & Maryland Gas Co. will extend its natural gas mains. The city has granted the franchise and the work will begin in a few weeks.

Colonial Beach, Va.—Bids will be received by H. W. B. Williams, Mayor, until noon, Oct. 11, for the construction of a power-house. Harry Stevens, Union Trust Bldg., Washington, D. C., is Consult. Engr.

Kenova, W. Va.—The Ohio Valley Electric Ry. Co., Cincinnati, Ohio, will build an addition to its power-house at Kenova, W. Va.

Sisterville, W. Va.—See item under Water Supply—Irrigation.

Graniteville, S. C.—The Graniteville Mfg. Co. will increase its power plant. New machinery will be installed.

Jacksonville, Fla.—The city is contemplating building a municipal power house. The Scofield Engineering Co., Philadelphia, Pa., has charge of the work.

New Iberia, La.—The Southwestern Traction & Power Co., New Orleans, will let contracts for the construction of a new power-house at New Iberia in the near future. Two 250-HP. water tube boilers, turbines, generators, etc., will be installed. Fuel oil will be used.

✚Newport, Ky.—A contract for supplying electricity for the city of Newport has been awarded to the UNION LIGHT, HEAT & POWER CO. The contract requires the city to pay $58 per lamp for arc lights and $27 per lamp for tungsten lamps.

Bowling Green, Ohio.—The Lake Erie, Bowling Green & Napoleon Ry. Co., 16 W. Wooster St., will place contracts during the next six weeks for an additional compound steam engine or turbine unit in its power plant. An automatic stoker will be installed, it is stated.

Cleveland, Ohio.—Bids will be received until Sept. 11 by the Board of Education for work at the West Technical High School, to include electric wiring, electric lighting fixtures, clock system, elevator, composition floors; also steel lockers for the Glenville School. Charles Orr is Director.

Columbus, Ohio.—All bids received by H. S. Holton, Dir. Pub. Ser., on Aug. 22 for ornamental cast-iron standards to be used to install a system of cluster lights in the city, have been rejected and will be readvertised.

Woodsdale (Trenton post-office), **Ohio.**—The Miami Power Co., of Hamilton, Ohio, recently incorporated, proposes to erect a 500-HP. hydro-electric plant on the site of the Catfield & Woods paper mill. The plant, it is said, will cost $500,000, and energy will be furnished to Hamilton, Middletown, Miamisburg and Franklin.

Cadillac, Mich.—Bids will be received by the Board of Commissioners of Wexford County, care Felix Flynn, County Aud., until noon, Sept. 1 (postponement), for the erection of a boiler house. Plans and specifications may be seen at office of E. A. Bowd, Arch., Lansing, Mich.

Batavia, Ill.—The Aurora, Elgin & Chicago R. R. Co. contemplates the installation of a coal-handling and coal-storage plant at its power-house at Batavia.

✚Chicago, Ill.—A contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Pa., for equipment for the extension of its La Salle St. substation, including two 3,000-KW, 25-cycle, self-starting rotary converters, with the necessary transformers, and a ten-panel switchboard, by the Chicago Rys. Co.

Fond du Lac, Wis.—The Eastern Wisconsin Ry. & Light Co. will build a brick addition to its power plant at North Main and Rees Sts., and will install new stoking apparatus, it is stated.

✚Rhinelander, Wis.—The Wisconsin Improvement Co. has awarded a contract for the construction of a new dam across Tomahawk River to ELY HUBERT, Tomahawk, Wis., and the excavation and filling contract to BROOKS & LANGLEY, Merrill, Wis. Cost, $86,000. A. A. Babcock, C. E., is Engr.

Carroll, Iowa.—C. I. Tenney has been voted a franchise by the citizens to build a gas plant.

Council Bluffs, Iowa.—Bids will be received until Sept. 7 by the Board of Water Works Trustees for furnishing complete two 100-HP., 3-phase, 60-cycle, 2,000-2,300-volt induction motors, f. o. b. cars, Council Bluffs. J. C. Jensen is Chn.

Des Moines, Iowa.—A company to develop power along the Des Moines River has been formed. A. C. Miller is in charge at Des Moines. Chicago capitalists are backing the project.

The Des Moines City Ry. Co. plans to build a 1-story brick addition to its power plant in Des Moines. J. E. Welsh, 205 Mulberry St., Des Moines, is Ch. Engr.

Canby, Minn.—An expenditure of $25,000 on the installation of an electric light plant will probably be made by the Citizens Electric Light & Power Co.

Ness City, Kan.—A bond issue of $16,000 has been voted to be used for the construction of an electric light plant. J. G. Collins is City Clk.

Fargo, N. Dak.—Bids will be received by E. R. Orchard, City Auditor, until Sept. 5, for constructing pumping station, electric light plant.

Bonham, Tex.—The Bonham Gas & Electric Co. will erect a new power-house and install new machinery.

Houston, Tex.—The Houston Gas Co. will install a new gas holder here to cost $100,000.

✚Phoenix, Ariz.—The City Council has awarded a contract to the NEW STATE ELECTRIC CO. for installing an ornamental lighting system, eight ornamental standards to be installed on each of the 19 blocks in the district, at $23,000.

✚Port Orchard, Wash.—A contract has been awarded to J. C. CORBIN & CO., Seattle, for the construction of a power-house at the State Veteran's Home at Port Orchard, at $13,987.

Sedro-Woolley, Wash.—Bids will be received until Sept. 15 by State Board of Control at Olympia for electrical equipment to be installed at Northern Hospital for Insane Administration Bldg., Sedro-Woolley, Saunders & Lawton, Seattle, are the Archs.

Portland, Ore.—The Mount Hood Ry., Light & Power Co., Portland, will build a 2-story reinforced-concrete substation, at the foot of Williams Ave. The cost is estimated at $60,000.

Colton, Cal.—The Southern California Gas Co. has secured a 50-year franchise to install gas mains. G. W. Grow is Supt.

✚Los Angeles, Cal.—A contract has been awarded to JOHN W. CATRON CO., Grosse Bldg., for the installation of a power system for the 13-story Union Oil Building, to be erected at Seventh and Spring Sts., at $11,325.

✚A contract has been awarded by Parkinson & Bergstrom, Archs., Security Bldg., to MEYBERG CO., Sixth and Spring Sts., for furnishing and installing electric fixtures in the 12-story Chester Bldg., at Fifth and Spring Sts. The estimated cost is $5,650.

✚San Bernardino, Cal.—The Southern Sierras Power Co. has awarded a contract for furnishing 2,000 ornamental steel towers to the MILLIKEN BROS., INC., 66 Broadway, New York, N. Y., and one to the ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa., for 1,500 miles of steel cable to be used for the construction of a power system between San Bernardino and Bishop. A contract for installing all machinery and drawing the plans for the buildings for the steam plant to be erected at San Bernardino has been awarded to C. C. MOORE & CO., American Savings Bank Bldg., Los Angeles.

✚Visalia, Cal.—The Mount Whitney Power & Electric Co. has awarded a contract to TREWHITT & SHIELDS, Hanford, Cal., at $21,400, for the construction work of the new building to be erected on West Main St., to include brick and woodwork, excepting the concrete foundation, plumbing, electric wiring and heating.

Arlington, Cal.—The City Council has decided to extend its street lighting system. Ornamental posts will be installed on North Main St. from Fifth to First Sts.

Montreal, Que.—Plans are being prepared for the construction of a conduit system.

Prince Albert, Ont.—A power plant is under consideration by Mayor Holmes and Alderman McLeod. The proposed plant will be located on the Saskatchewan River at La Colle Falls.

Winnipeg, Man.—Bids will be received until Sept. 11 by M. Peterson, Secy. Bd. of Control, for manufacture and delivery f. o. b., Winnipeg, of the following supplies according to approved specifications, namely: Section A, Mercury arc transformers and rectifiers; Section B, magnetic or metallic flame arc lamps; Section C, electrodes; Section D, inner and outer globes. Specifications and forms may be obtained at the office of the General Manager of the City Light and Power Department, 449 Main St.

BRIDGES.

(*✚Denotes a contract awarded.*)

***Fitchburg, Mass.**—Bids will be received by the Board of Street Commissioners until 5 p. m. Sept. 25, for constructing the Fifth St. viaduct. Plans may be seen and specifications and forms of proposals obtained at the office of Timothy J. Sheehan, City Engr., Fitchburg, Mass., and at the office of James H. Fuertes, Consult. Engr., 140 Nassau St., New York City. Thomas A. Monahan, Joseph A. Rivers and David C. Dacey are Comrs.

Moravia, N. Y.—The taxpayers have voted to build a new bridge over Owasco Creek at West Cayuga St.

Phoenix, N. Y.—A bridge over the Oswego River at this point will probably be built. Frank E. Bogardus is County Supt. of Highways.

Rhinbeck, N. Y.—Col. John Jacob Astor will provide funds for a concrete bridge to replace the old iron bridge at the foot of the Mill St. hill.

Southampton (L. I.), N. Y.—Bids will be received by the Town Board until Sept. 12 for constructing a bridge over Quantuck Canal. Gaston E. Bishop, Westhampton Beach, and Sherwood Hallock, of East Quoge, have been appointed a Special Committee. The bridge will cost about $12,000.

✚Whitesboro, N. Y.—Bids for the construction of a bridge over Saulquoit Creek, between Whitesboro and Yorkville, have been received as follows: OSWEGO BRIDGE CO., concrete arch bridge, $6,700 (awarded contract); L. J. Snell, Dolgeville, concrete slab bridge, $6,800; Groton Bridge Co., steel deck bridge, $4,987.

Indiana, Pa.—Bids will be received by the County Commissioners until Sept. 2, for constructing a reinforced-concrete bridge, 203 ft. long, with a 16-ft. clear roadway, over Blacklick Creek.

Lancaster, Pa.—Bids will be received by the Water Committee (J. A. Leinbach, Clk.) until sept. 12, for erecting a 3-span steel truss bridge. J. H. Rathfon is City Comptroller.

North Braddock, Pa.—Bids will be received by C. A. Stewart, Boro. Engr., until Sept. 5, for constructing a steel bridge and stairway complete crossing over the main tracks and siding of the Pennsylvania R. R. at 13th St., in the Boroughs of Braddock and North Braddock. The bridge will have a span of 125 ft. and a width of 8 ft.

Renovo, Pa.—Bids will be received by the County Commissioners at Lock Haven, Pa., until Sept. 1, for constructing the steel superstructure of a 3-span steel truss bridge 490 ft. long, over the west branch of the Susquehanna River between Renovo and South Renovo Boroughs. D. I. McNaul is County Clk.

Hillsville, Pa.—Bids will be received by the Clerk of the Circuit Court, Hillsville until noon, Sept. 6, for constructing a 144-ft. steel bridge over Little Reed Island Creek. Plans are on file with the Childrey-Sunday Co., Richmond. P. St. J. Wilson is State Highway Comr.

Appomattox, Va.—Bids will be received by the Clerk of the Circuit Court, Appomattox, until noon, Sept. 6, for constructing an 80-ft. steel bridge over Rock Island Creek, and a 60-ft. steel bridge over Bent Creek, in Appomattax County. Plans are on file with the Childrey-Sunday Co., Richmond. P. St. J. Wilson is Sate Highway Engr.

✚Clintwood, Va.—We are officially advised that the contract for constructing two steel bridges has been awarded to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., at $7,625. The other bids were: Roanoke Bridge Co., $8,462; Austin Bros., Atlanta, Ga., $7,900. Emery B. Chase is Clk. Noted Aug. 3.

Tilton, Ga.—Bids will be received by the Commissioners of Gordon and Whitfield Counties about Sept. 9 for constructing a bridge across Connasauga River, at Greeson's Ferry, about three miles from Tilton. The bridge will consist of one span 140 ft. long, with 12-ft. roadway, on steel cylinder piers and concrete abutments.

✚Somerville, Tenn.—We are officially advised that the contract for constructing five steel bridges was awarded on Aug. 21 to the MEMPHIS BRIDGE CO., at approximately $14,000.

Akron, Ohio.—Bids will be received until Sept. 6 by the County Commissioners of Summit County for constructing the superstructure and substructure of a bridge over Wolf Creek on the Wooster Road at Barberton.

✚Hamilton, Ohio. — A contract for constructing a bridge over the canal at Grand Boulevard has been awarded to the A. S. FOX CO., Dayton, Ohio, at $7,562.

Lancaster, Ohio. — Bids will be received by the Board of County Commissioners, H. C. Belt, Clk., until Sept. 11, for constructing the steel superstructures for two bridges.

✚Indianapolis, Ind.—The contract for constructing a bridge over Little Eagle Creek at West Washington St. has been awarded to the RELIABLE CONSTRUCTION CO., at $22,366.

***Grand Rapids, Mich.** — We are officially advised that bids for constructing the Leonard St. reinforced-concrete bridge were received on Aug. 24, as follows: Hackedorn Construction Co., Indianapolis, Ind., $77,777; Albert H. Prange, Grand Rapids, $82,482; A. C. Sekell, Grand Rapids, Mich., $82,900; Joseph P. Rusche, Grand Rapids, $87,900; Boyes, Smith & Nordella, Grand Rapids, $89,185; Geo. W. Bunker Co., Grand Rapids, $91,626; Genty Bros., Grand Rapids, $97,000. Edward H. Christ is Pres. Bd. Pub. Wks., and Louis D. Cutcheon, City Engr. Noted Aug. 3.

Harvard, Ill. — Bids will be received by P. E. Saunders, City Clk., until Sept. 4, for constructing three reinforced-concrete highway bridges.

✚Albert Lea, Minn.—We are officially advised that the contract for constructing a reinforced-concrete bridge and dam was awarded on Aug. 21 to the MARSH ENGINEERING CO., Des Moines, Iowa, at $25,474. The other bids were: St. James Tile Mfg. Co., St. James, Minn., $28,500; J. W. Turner Improvement Co., Des Moines, $26,900. William Barneck is City Engr.

✚Haskell, Tex.—The Commissioners' Court has awarded a contract to AUSTIN BROS., Dallas, for the erection of two bridges across the Brazos River, at a total cost of $16,012.

Pocatello, Idaho.—Bids will be received by the County Commissioners until Sept. 12 for constructing a steel bridge over Bear River at McGregor's Ford.

✚Reno, Nev.—We are officially advised that the contract for constructing the Glendale bridge was awarded on Aug. 17 to the CANTON BRIDGE CO., at $10,530. W. A. Fogg is County Clk.

✚Eureka, Cal.—We are officially advised that a contract for constructing a steel bridge across Bear River has been awarded to FRANK L. SMITH, at $7,494. The other bidders were: Pacific Construction Co., $8,500; Mercer-Fraser Co., $7,500; H. Padgett, $7,633.

Fresno, Cal. — The Supervisors of Fresno and Madera Counties will construct a concrete and steel bridge across the San Joabuin River at a cost of $50,000.

✚Jenny Lind, Cal. — Bids for constructing a steel and concrete bridge over the Calaveras River have been received as follows: Midland Bridge Co., Kansas City, Mo., $17,500; Clarence W. Swain, two-span steel bridge, $19,446, extra concrete, $12 per yd.; American Construction Co., San Francisco, reinforced-concrete bridge, $44,950, steel bridge, $3,250; Pacific Construction Co., San Francisco, reinforced-concrete bridge, $37,628; steel bridge, $22,600; Burrell Bridge and Construction Co., Oakland, concrete bridge, $39,900, extra excavation, 90c. per cu. yd., extra concrete $13 per cu. yd., steel bridge, $17,890; Corton Bros. & Co., Oakland, steel bridge, $16,274; Hydes, Hayes & Co., San Francisco, steel bridge, $16,980; Healy-Tibbits Construction Co., San Francisco, steel bridge, $[illegible]; Missouri Valley Bridge and Iron [illegible], Kansas City, Mo., $16,589; Clinton Bridge and Iron Works, Clinton, [illegible] steel bridge, $19,652; Ross Construction Co., Sacramento, steel bridge, $1[illegible]; JENKINS & WELLS, Sacramento, [illegible] steel bridge, $14,832, concrete in place other than specified, per cu. yd., [illegible] $12, concrete in place other than specified, per cu. yd., deduct $6 (awarded contract).

San Jose, Cal.—Bids will be received by the Board of Supervisors, Henry A. Pfister, Clk., until Sept. [illegible] for constructing a reinforced-concrete bridge at Latimer Ave., over the [illegible] crossing of San Tomas Aquino Creek.

Santa Barbara, Cal.—Bids will be received by C. A. Hunt, County Clk., until Sept. 5, for the construction of a bridge to cross the Maria Ygnacio Creek.

Ventura, Cal.—Bids will be received by the Board of Supervisors until Sept. 11, for constructing three bridges. Mayberry & Parker, Pacific Electric Bldg., Los Angeles, are Consult. Engrs.

✚Ventura, Cal.—The MERCEREAU BRIDGE & CONSTRUCTION CO., Pacific Electric Bldg., Los Angeles, has been awarded a contract at $11,690 for the construction of three bridges in Ventura County; one at Moorpark, consisting of two 50-ft. spans; a 40-ft. span over Todd Barranca, and a 24-ft span at Adams Canyon. The other bids were: Mesmer & Rice, $13,475; Petterson & Schmidt, $6,300, for the bridge at Moorpark only. All three bridges will be of reinforced-concrete construction.

Visalia, Cal. — Bids will be received by the Board of County Supervisors, Visalia, for the construction of a steel and concrete bridge over Tule River south of Porterville and one-half mile west of Plane Bridge. It will have five spans, each 40 ft. long.

BUILDINGS.

(**Denotes that this work is advertised in Engineering News.*)

Northampton, Mass.—A $40,000 theatre will be erected by John T. Dewey, 20 Pleasant St., Northampton. Plans by B. H. Seabury, Besse Pl., Springfield, Mass.

✚Springfield, Mass.—The contract for the construction of the new science hall at Bates College has been awarded to the F. A. RUMERY CO., of Portland. The building will be a 4-story structure, rectangular in shape, and of brick with stone trimmings. Its cost will be $50,000. Henry D. Whitefield, of New York, is the Arch.

✚Boston, Mass.—The contract for the convent for the Boston Cenacle Society on Lake St., Brighton District, was awarded to J. B. BYRNE, 162 Sidney St., Cambridge. To be of brick and stone, four stories, 100 × 140 ft., and to cost $150,000. Maginnis & Walsh, 100 Boylston St., are the Archs.

✚The contract for the 10-story Minot building at Spring Lane and Devonshire St. has been awarded to the GEORGE A. FULLER CO., Boston.

Bids will be called for about Jan. 1, 1912, for the court-house and police station to be erected on Paris St., East Boston District. To be of brick and stone, 105 × 140 ft., and to cost $125,000. Harrison H. Atwood, 61 Allen St., is the Arch.

✚McGAHEY & O'CONNOR, 319 Washington St., have been awarded the contract for the store and tenement block on Chambers St. for Edward Ginn. JOHN T. SCULLY CO., 95 Milk St., has the contract for masonry. To be of brick, five stories, 134 × 110 ft. Ernest Flagg, 109 Broad St., New York City, is the Arch.

An 18-apartment block will be built at once on Lawrence Park, Dorchester District, for Max Molliver. To be of brick, three stories, 96 × 44 ft. Cost, $40,000.

✚Concord, Mass.—The contract for the brick grammar schoolhouse to be erected on Stow St. has been awarded to R. D. DONALDSON, of Lincoln. Estimated cost, $60,000. Derby, Robinson & Shepard, 20 Beacon St., Boston, are the Archs.

Fitchburg, Mass.—A stone and tenement block will be erected on Granite St. for Carinine Maffeo. To be 46 × 47 ft., three stories, of brick. Pratt & Davis are the Archs.

Haverhill, Mass.—Bids are now being received for the society building to be erected for the Protective Order of Elks on Summer St. to be of brick, three stories, 110 × 80 ft., to cost $60,000. C. Willis Damon, 25 Washington St., Haverhill, is the Arch.

Holyoke, Mass.—Bids will be asked for the brick dormitory and laundry to be erected at Brightside for the Holy Family. John W. Donohue, of Springfield, is the Arch.

Plans have been completed by George P. B. Alderman & Bro., of this city, for an apartment block at Elm and Sargent Sts. for Mrs. Louise Tracy. The building will be of brick, five stories high, 75 × 122 ft., with pressed brick front and side with limestone trim, steam heat, etc.

Oscar Beauchemin is completing plans for a tenement block to be erected on St. Jerome Ave. for Joseph Laplante. The building will be of brick, three stories high, 106 × 57 ft.

Pittsfield, Mass.—McLaughlin & Siebert are preparing plans for a block to be erected on Eagle St. for Edgar D. Pritchard. The building will be four stories in height arranged for stores on the first floor and the upper floors for offices and lofts for light manufacturing.

The Pittsfield Masonic Association is planning the erection of a Masonic Temple on South St. The proposed building will cost about $60,000, and will contain an assembly hall, 65 × 100 ft.; also kitchen, parlors, club rooms, bowling alleys, billiard room and shower baths.

Somerville, Mass.—Bids will be received until Sept. 8 by the Commissioner of Public Bldgs. for the construction of a school building. Walter T. Littlefield, City Hall, is the Arch. and Comr.

Springfield, Mass.—An apartment block to be 101 × 89 ft., four stories, of brick, for 32 families, will soon be begun for Bernhard Radding on Carew St. John W. Foster is the Arch.

Bids will be received until Sept. 2 for the construction of a fire engine house and drill tower to be erected at North and Patton Sts. The engine house will be of red brick with limestone and granite trim and terra cotta cornices, 58 × 89 ft. in size and three stories high, the first story of fireproof construction. The drill tower will be six stories high. B. Hammett Seabury is the Arch.

+Winthrop, Mass.—The contract for the St. John's Roman Catholic Church has been awarded to S. H. MAHONEY, 11 Court Rd. WILLIAM MORGAN, Atlantic Ave., has the contract for the masonry work. To be of brick and concrete blocks, 136 × 66 ft., to cost $40,000. Edward T. P. Graham, 20 Beacon St., Boston, is the Arch.

Worcester, Mass.—The contract for the store and tenement block on Shrewsbury St. for Frank M. Charmella has been awarded to J. A. and M. J. KENNEDY, 7 Plum St. Fuller & Deluno Co., Chase Bldg., are Archs.

+F. W. MARK, 4 Walnut St., has been awarded the contract for the factory for the Critchley Machine Screw Co. Cutting, Carleton & Cutting, Chase Bldg., are the Archs. Noted Aug. 14.

+Derby, Conn.—The H. WALES LINES CO., Meriden, Conn., has been awarded the general contract for the erection of the 3-story brick office building for the Birmingham Iron Foundry for which plans were drawn by Griggs & Hunt, 51 Leavenworth St., Waterbury, Conn. Noted June 15.

Hartford, Conn.—The engineers of the Connecticut Co. have prepared plans for a large car barn to be built on Washington St. The plans have been submitted to the State Railroad Commission and the city boards for approval. C. C. Elwell is Ch. Engr. at New Haven, Conn.

+Meriden, Conn.—THE H. WALES LINES CO., general contractors for the brick stable and storage building on Pratt St. for J. J. Terry & Son, have awarded sub contracts as follows: roofing, G. R. CUMMINGS; painting, J. F. BUTLER CO.; electrical work, CONNECTICUT ELECTRICAL EQUIPMENT CO.; sheet metal work, GRISWOLD, RICHMOND & GLOCK CO. The building will be two stories high, 70 × 162 ft. Noted July 13.

New Britain, Conn.—W. P. Crabtree has completed plans and bids are being received for the block to be erected on Main St. adjoining the New Britain National Bank for M. C. Le Witt. The building will be of brick, 33 × 117 ft., three stories high, with light pressed brick front and limestone and terra cotta trim.

+New Haven, Conn.—The DAVID H. CLARK CO., of this city, has been awarded the contract for the erection of a $40,000 brick and frame residence on St. Ronan St. for Prof. G. H. Nettleton. Menzies & Menzies have the contract for the plumbing and steam heating. The plans were drawn by Grosvenor Atterbury, of New York City, and provide for a house finished in hard woods throughout, and a Spanish tile roof.

Stamford, Conn.—Estimates are now being received for the erection of a 3-story, brick business block, 25 × 80 ft., on Atlantic St. for F. W. Jerman. The plans were drawn by Nelson E. Emmens, Stamford.

Milford, Conn.—Plans have been completed by W. P. Crabtree, Arch., New Britain, Conn., for a warehouse for the Everett B. Clark Seed Co. The building will be of brick, mill construction, 38 × 62 ft., and three stories high with Otis elevator.

+Buffalo, N. Y.—Contracts for the hospital building for the Buffalo Orphan Asylum at Elmwood Ave. and the North Shore Blvd., have been let in part. JOHN LANNEN, Builders Exchange, received contract for masonry; the BUFFALO STRUCTURAL STEEL CO. for fabricated steel and AUGUST FEINE, Erie St. and The Terrace, for ornamental iron work. The total cost will be $48,000. Green & Wicks, 115 Franklin St., Archs.

Greece, N. Y.—JOHN ERION, Rochester, N. Y., has received general contract for erection of a 3-story and basement school building, 65 × 65 ft., to be erected by the town of Greece at Dewey Ave. and Ridge Road, from plans of Glen H. Rees, Arch., Rochester.

Binghamton, N. Y.—It is reported that George H. Burgess, Ch. Engr. of the Delaware & Hudson R. R., at Albany, has announced that the improvements which the railroad company will make here will cost between $80,000 and $100,000, exclusive of the cost of the site. The proposed improvements will comprise a round-house, machine shop, coaling station, ash pits, water supply system and a blacksmith shop.

Buffalo, N. Y.—St. Gerards Roman Catholic congregation will erect a church edifice and parochial school building at Bailey and East Delavan Aves. to cost $85,000.

The New York Telephone Co., 14 West Seneca St., will erect an addition, 50 × 50 ft., 2-story and basement, to its substation exchange building at West Delavan Ave. and Baynes St.

The American Agricultural Chemical Co. will build a 2-story brick office building at its plant, Lewis and Babcock Sts. and the Erie R. R.

+Ithaca, N. Y.—The contract has been awarded to DRISCOLL BROS. & CO. for the construction of a building in the department of farm mechanics at the New York State College of Agriculture. The structure will be 1-story high and 96 ft. long, and have a width of 40 ft. It will be situated just east of the present judging pavilion. It is expected that the building will be used for the display of modern farm machinery.

+Liberty, N. Y.—The contract for erection of a high school building from plans of S. O. & J. K. Lacey, Binghamton, has been let to J. PORTER PARSONS and FRED'K G. JONES of Binghamton, N. Y., at $54,767.

+Mechanicsville, N. Y.—Plans have been completed by Loth & Millnan, 253 Broadway, Troy, N. Y., for the construction of an edifice, 80 × 200 ft., for St. Paul's Roman Catholic Congregation. The general contract is held by JAMES DOLLARD CO., Troy. The cost is $135,000.

New York, N. Y.—Bids will be received by C. B. J. Snyder, Supt. Dept. of Public Bldgs., New York, until Sept. 11, for the general construction, etc., of portable school buildings, at annex to Public School 32, on the southwest corner of Prospect Ave. and Poplar St., Douglaston Heights, Borough of Queens.

New York, N. Y.—Bids will be received by the Department of Education, Manhattan, until Sept. 11, for the general construction, etc., of New Public School 45, on East 184th St., Lorillard Pl. and Hoffman St., Borough of The Bronx, for interior alterations and additions to the fire escape at hall of the Board of Education, Park Ave. and 59th St., Borough of Manhattan, for the general construction, etc., of portable school buildings as annex to Public School 15, southeast corner of Junction and Park Aves., Corona, Boro. of Queens.

New York, N. Y.—Plans have been prepared by J. C. Cocker, 2017 Fifth Ave., for the construction of a 5-story tenement house for the Schuck Realty & Construction Co., 19 St. Nicholas Ave., to be erected at Convent Ave. and 127th St. The cost is $65,000.

Plans have been prepared by George K. Wells, 1 Union Sq., for the construction of a 6-story tenement building with store for Samuel Root, 65 East 79th St. T. Cowner will handle all building contracts.

Plans have been prepared by Harold L. Young, 67 West 125th St., for the construction of a 6-story apartment building for the Melvin Realty Co., 171 Broadway, to be erected at St. Nicholas Ave. and 177th St. The cost is $250,000.

Plans will be prepared by Neville & Bagge, 217 West 125th St., for the construction of a 6-story apartment house for the Gorham Construction Co., at Manhattan Ave. and 115th St.

A charter has been filed for the proposed Lutheran Hospital building in New York. The building will cost $200,000.

Bids will be received about Oct. 1 by The Willard Parker Hospital Trustees for the construction of a dormitory addition to the hospital at First Ave. and 15th St. Plans have been prepared by Clinton & Russell, 32 Nassau St. The building will be 50 × 100 ft., and six stories high.

Plans have been filed with R. Miller, Bldg. Supt. in Manhattan, for the construction of an 11-story warehouse on the north side of 43d St., 207 ft. west of Seventh Ave., for the New York Times Building Co., of which Adolph Ochs is Pres. It will have a frontage of 143 ft. and a depth of 90 ft., with a facade of brick, limestone and terra cotta, and will be thoroughly fireproof. Buchman & Fox, Archs., have estimated the cost at $500,000.

Bids were received as follows on Aug. 25 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for wiring the post-office building at New York City: Lord Electric Co., New York, $74,050; Eugene Franck, New York, $60,000; Van Wagner-Lind Construction Co., New York, $55,720; Porsth Electric Co., New York, $64,953.

Poughkeepsie, N. Y.—At a special election, Aug. 16, the taxpayers voted to spend $250,000 erecting a high school building on North Hamilton St. and $70,000 for a new grammar school near Church and Main Sts.

Percival M. Lloyd, Arch., has closed contracts for R. U. Delepenha & Co.'s extensive manufacturing plant along the New York Central R. R., three miles south of here, on which work is to begin at once and which is to be finished by Jan. 1, 1912. General contract was awarded to the AMSTERDAM BUILDING CO., of New York; heating to GEORGE W. LAWTON, of Hoboken, N. J.; plumbing, P. C. DOHERTY, of Poughkeepsie; excavating, to WILLIAM J. GARCEY, of Long Island City.

+Rochester, N. Y.—The contract has been awarded to the ALEXANDER, SHUMWAY & UTZ CO., 16 State St., Rochester, N. Y., for the construction of a 2-story reinforced-concrete building 98 × 369 ft., and wing 31 × 61 ft., for the Stecher Lithographic Co. Foundations and columns designed for four stories. George C. Wright is Engr.

Syracuse, N. Y.—H. D. Phoenix, Union Bldg., has completed plans for a 3-story and basement factory, 30 × 102 ft. Steel, brick and tile construction to be erected at Division and Solar Sts. by the Weymer Co.

Yonkers, N. Y.—The Tuberculosis Hospital Commission, of which Thomas Ewing, Jr., is Pres., will receive bids until Sept. 7 for a municipal tuberculosis hospital to cost between $40,000 and $50,000. The plans are Arch. G. Howard Chamberlin's, Getty Sq., Yonkers.

Buffalo, N. Y.—Esenwein & Johnson, 781 Ellicott Square Bldg., have completed plans for a casino building and boat house, 55 × 80 ft., 2½ stories, brick and tile, to be erected in Cazenovia Park by the City of Buffalo. David A. Seymour, Supt. Park Dept., City Hall.

W. S. Brickess, 595 Ellicott Square Bldg., has completed plans for a store and office building, 66 × 100 ft., four stories and basement, brick and steel, to be erected at Washington and Swan Sts. for Washington B. French, 25 Bidwell Parkway.

Frontenac, N. Y.—It is reported that the stockholders have decided to rebuild at once the Hotel Frontenac, which was recently burned, with heavy loss, and will have the new building ready for use next season.

***Navesink, N. J.**—Bids will be received by F. E. Siek, District Clk. Bd. Educ., until 8 p.m., Sept. 18, for the erection and completion of the general construction, etc., and for the heating and ventilating and plumbing, etc., of the new 12-class room and assembly room new school building to be erected on land recently acquired at the southeast corner of Leonardville Road and Hosford Ave., Leonardo, N. J. For details see advertisement in this issue.

Vineland, N. J.—Metzger & Wells have submitted the lowest bid on plans for a 3-story addition, 70 × 40 ft., to the Home for Feeble-Minded women, at Vineland, N. J.

Altoona, Pa.—Plans have been prepared for the construction of a 3-story building for L. J. Jones at the corner of Lafayette and Water Sts. The building will cost $40,000. The structure will be three stories in height, 24 ft. in width and 178 ft. long. There will be a basement, which will be constructed in such a manner that it can be used by the wholesale fish business, there being an opening from Water St., and another from the docks on the river. The first floor will be divided into several storerooms.

+Connellsville, Pa.—James Knox Taylor, Supv. Arch., Treasury Depart., Washington, D. C., has awarded contract for the construction of a post-office at Connellsville, Pa., to WILLIAM H. FISSELL & CO., St. James Bldg., New York, at $81,805.

+Huntingdon, Pa.—The general contract has been awarded to P. W. FINN, Altoona, Pa., for the construction of a $45,000 edifice, 100 × 100 ft., for the Evangelical Lutheran Congregation. Plans by J. C. Fulton, Arch., 51 West Main St.

+Johnstown, Pa.—The contract has been awarded to D. J. RIFFLE, Pittsburgh, Pa., for the construction of an addition to the Franklin Street Methodist Episcopal Church. This building will cost about $75,000. It is a brick and stone additon to the church building, 57 × 115 ft. in ground area and will provide Sunday school room, reception rooms, kitchen and other accommodations of an institutional nature. T. E. Bilquist, Arch., made the plans.

Philadelphia, Pa.—Plans were filed by Thomas, Churchman & Molitor with the Bureau of Building Inspection for the proposed $100,000 Adath Jeshurun Synagogue, 80 × 160 ft., to be erected at 2107-2113 North Broad St.

Stuckert & Sloan are preparing plans for a 2-story buiding, 20 × 30 ft., at 5 and 7 South Second St., for Horn & Hardart. It will serve as an addition to the restaurant of Horn & Hardart on the south side of Market St., east of Second St., which it adjoins in the rear.

Cope & Stewardson, Archs., 316 Walnut St., have been commissioned by the Trustees of the University of Pennsylvania, which institution holds title to the Chestnut Street Opera House, to prepare plans for remodeling and rebuilding the theatre. The cost will be about $100,000.

Pittsburgh, Pa.—Plans have been completed by The Hunting Davis Co., Archs. and Engrs., Farmers Bank Bldg., Pittsburgh, for the construction of a new 6-story, 225 × 100 ft. warehouse at River Ave. and Balkan St., for the Alling & Cory Co., Third and Liberty Sts. The concrete columns and beams of the structure will be exposed and the panels will be of dark red brick. The trim will be of Indiana limestone. The building will have metal fireproof windows and fireproof doors. The foundation will be of concrete piles. A railroad siding will be run through the building. It will be equipped with four electric elevators. The floors will be sloped from the center to the outside for drainage in case the floors are flooded when fire occurs in the contents of the building.

Baltimore, Md.—Madison Amusement Co. has plans and specifications by F. E. Tormey, Law Bldg., for vaudeville theater for Madison Ave. and Bloom St. Will be of brick and stone construction, ornamental facade, will have vari-colored distributed about the amusement building.

The School Board of Baltimore has had plans and specifications prepared by Thos. C. Kennedy, 211 North Calvert St., for school building at Westwood and Rosedale Aves., to be of brick construction, trimmed with stone, electric lighting, sheet metal work, concrete foundation, tile work, plumbing.

+The Baltimore & Ohio R. R., F. L. Stewart, Ch. Engr., awarded the contract to BALTIMORE BRIDGE CO., Baltimore, to erect warehouse on Henderson's Wharf, 230 × 34 ft. Superstructure of steel.

Betsy Levi Memorial has plans and specifications by Theodore Wells Pietsch, 1001 American Bldg., for the erection of a home at Monument St. and Broadway, to be of brick construction, trimmed with stone.

The Western Maryland Ry. Co., H. R. Pratt, Ch. Engr., Hillen Station, Hillon and Exeter Sts., Baltimore, Md., is having tentative plans prepared by C. M. Anderson, 324 North Charles St., Baltimore, Md., for its proposed station.

+Johns Hopkins University awarded contract to EDWARD BRADY & SON, 1109 Cathedral St., for erection of a laboratory at Homewood; 2½ stories high, brick, stone and ornamental facade, slate roof, concrete foundation. Plans by Parker, Thomas & Rice, Union Trust Bdg.

+John G. Fleck, Philadelphia, Pa., awarded contract to McLAUGHLIN BROS., INC., 916 Bolton St., for erection of warehouse at 603 North Calvert St.; will be of brick and stone construction. Cost, $60,000.

Washington, D. C.—Bids will be received until 3 p. m., Oct. 10 (extension of date from Sept. 15) by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of the U. S. post-office at Washington, D. C. Drawings and specification may be had at this office or at the office of the architects, D. H. Burnham & Co., Ry. Exchange Bldg., Chicago, Ill.

Salem, Va.—The Building Committee of Board of Trustees of Roanoke Women's College approved plans and specifications by Charles M. Robinson, of Richmond, Va., to erect proposed school buildings. Cost, $75,000.

Suffolk, Va.—The Atlantic Coast Line Ry., E. B. Pleasants, Ch. Engr., Wilmington, N. C., will erect passenger station, stone construction.

+Fairmont, W. Va.—JOHN M. KISNER, Fairmont, was awarded a contract to build an addition to the car barn of the Fairmont & Clarksburg Traction Co. Cost, $40,000.

Columbia, S. C.—The Palmetto Construction Co. propose to erect a 14-story building.

Jacksonville, Fla.—A 15-story office building will be erected on the property of the Seaboard Air Line Ry. at the southwest corner of Bay and Hogan Sts.

Tampa, Fla.—A 10-story reinforced-concrete and steel building will be erected on Jackson St., between Franklin and Tampa Sts., by R. Mugge. The approximate cost is $100,000.

New Orleans, La.—Schwartz Bros. & Co., New Orleans, La., are contemplating the erection of an 8-story building to replace their present quarters at Canal and Magazine Sts.

Bids will be received until Sept. 11 by F. J. White, Controller, for the erection of a new brick market building.

Shreveport, La.—A structure to cost $100,000 is to be built by the congregation of the First Methodist Church in this city, and is to be located on the site of the present church, at the foot of Texas St. King & Snyder, Shreveport, are the Archs. The Rev. G. E. Cameron is Chn. of Bldg. Com.

Canton, Ohio.—A 5-story church, 100 × 160 ft., will be erected by the First Presbyterian Congregation. The cost is about $45,000. Plans by Fountain & Moratz, 663 Rose Bldg., Cleveland, Ohio.

+Martin's Ferry, Ohio.—The contract has been awarded to the RAYMOND CONCRETE PILE CO., 90 West St., New York City, and Chicago, G. C. Kimball, Ch. Engr., for the concrete piles and foundations of the warehouse extension of the Laughlin works of the American Sheet & Tin Plate Co. at Martin's Ferry, Ohio.

Zanesville, Ohio.—Bids will be received on Sept. 20 for the construction of an edifice, 100 × 125 ft., to cost $60,000. Plans by J. C. Fulton, 51 West Main St., Uniontown, Pa. The Central Presbyterian Congregation is owner.

+Columbus, Ohio.—The contract for the construction of a concrete building, 60 × 90 ft., on East Gay St., for Vorys, Sater, Seymour & Pease, has been awarded to R. H. EVANS & CO., Columbus, for about $75,000.

Amos, Ind.—William Hunt, Trustee Clay Township, Hendricks County, has ordered plans on which bids will be asked for the erection of a new high school building at Hadley, Ind. Mac. Johnson, Brazil, Ind., Arch.

Laporte, Ind.—The New Process Heating & Lighting Co., capitalized at $50,000, is preparing to erect and equip a factory.

Ligonier, Ind.—Bids will be received by the Building Committee of the local lodge of Elks until 7 p. m., Sept. 5, for the construction of a club house. J. L. Dunning, Chn.

✚Princeton, Ind.—AUGUST OHM, of Terre Haute, Ind., has been awarded the contract for the construction of the post-office building on corner Main and Tenth Sts. The building must be completed in one year. Contract price, $49,750.

South Bend, Ind.—F. C. Roff has ordered plans on which he will ask for bids for the erection of a brick veneer slate roof 12-room dwelling on Taylor St. and Colfax Ave. Austin & Shamblau are Archs.

Stewartsville, Ind.—M. R. Denburger will ask for bids for the construction of a typical California bungalow with ship lap siding. There will be nine rooms and bath. C. E. Gilbert, Evansville, Arch.

Terre Haute, Ind.—It is reported that the County Council contemplates appropriating $60,000 for the erection of a new county infirmary.

Vincennes, Ind.—The American Motor Co., of Brockton, Mass., will erect a factory on a 10-acre site in this city and $25,000 bonus given to the company by the citizens. The company will manufacture motor cycles and automobiles.

Washington, Ind.—The large warehouse belonging to Robert McCreary has been destroyed by fire.

✚Detroit, Mich.—Stratton & Baldwin, 1103 Union Trust Bldg., Detroit, have awarded the following contracts for the library building, 1-story and basement, 68 × 102 ft., for the Detroit Library Commission, R. Phelps, Secy., 17 Butler Bldg. Carpentry, to C. KELLER, 657 Canfield Ave.; steam heating and plumbing, to ERNST BROS., 414 Woodward Ave.; plastering let to H. SCHAEFER, 118 Macomb St. Cost, $40,000.

Smith, Hinchman & Grylls, 710 Washington Arcade Bldg., have awarded the following contracts for the Auditorium for the Detroit Library Commission, R. Phelps, Secy., 17 Butler Bldg.: To SONN & SCHREIBER, 1275 Bellevue Ave., general contract; steam heating and plumbing let to ERNST BROS., 414 Woodward Ave.

Smith, Hinchman & Grylls, 710 Washington Arcade Bldg., Detroit, have awarded the general contract for enlarging and remodeling the store building of the E. J. Hickey Co., 201 Woodward Ave., to W. E. BALLMAN, 82 Broadway Ave., Detroit.

Chicago, Ill.—Building permits have been issued for the construction of two buildings, one for the Marshall Field estate and the other for Henry C. Lytton, of the Hub. The Marshall Field estate will build a 21-story store and office building on the site of its present 5-sty building at the southwest corner of Wabash Ave. and Washington St. The cost is placed at $1,600,000. D. H. Burnham & Co., 9 Jackson Blvd., are the Archs. Mr. Lytton of the Hub will erect a 19-story store and office building, also to cost $1,600,000, at the northeast corner of State St. and Jackson Blvd., on a site with a frontage of 117½ ft. in State St. and 145 ft. in Jackson Blvd. He recently acquired the leasehold and 4-story building at Nos. 231-233 State St. from Paul Brauer as a part of his plan to build the skyscraper. Marshall & Fox, 164 Dearborn St., are the Archs.

A 14-story building will be erected, it is reported, in Chicago, at 119-23 West Madison St., between Clark and La Salle Sts., to be devoted exclusively to advertising interests. The proposition was made to the Chicago Advertising Association, made up of most of the advertising men of Chicago, by White & Tabor, representing Frederick R. Barnheisel, the owner of the property, and it was accepted at a special meeting of the association. The building will be 14 stories in height, of fireproof construction. The lot is 45 × 90 ft., and is to be controlled by Mr. Barnheisel, who obtained it on a 99-year lease from Michael Burke, its owner, a year ago. The upper two floors will be reserved for club purposes and the other floors will be leased to advertising men. The building, according to present plans, will be known as the Advertising Exchange Building. The cost is $250,000.

Plans for establishing a training school for stewards to cost $500,000, were considered at a session of the annual convention of the International Stewards' Association. Nearly $200,000 has already been pledged.

✚Chicago Heights, Ill.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Chicago Heights, Ill., to the KING LUMBER CO., Charlottesville, Va., at $47,084.

Springfield, Ill.—A 3-story apartment house will be erected by Leslie D. Pulliam on South Second St., between Monroe St. and Capital Ave. The building will cost about $40,000. Plans by George H. Helmle, Arch.

*__Athens, Wis.__—Bids will be received until noon, Sept. 2, by the Building Committee of the Evangelical Congregation for erecting an edifice.

Kenosha, Wis.—Charles T. Jeffery has announced that the Thomas B. Jeffery Co. will erect several large Rambler service buildings in the largest cities of the country beginning in the fall of this year. Buildings will be established in Boston, New York, Chicago and San Francisco.

Madison, Wis.—M. E. McCaffrey, Secy., Board of University Regents, will receive bids until Sept. 4 for the entire construction, excepting structural steel, of the athletic annex to the university gymnasium, for which an appropriation of $155,000 has been made.

Milwaukee, Wis.—Allan D. Conover, Arch., Madison, Wis., has submitted plans to the County Board of Supervisors for the proposed new House of Correction plant, to be erected on a site recently purchased at North Milwaukee. There will be eight buildings as follows: Administration, dormitory, dormitory for women, cell house, kitchen, factory and workshop, hospital, and central heat and power plant. A complete tunnel system will connect all buildings. Bids will be called for in about two weeks' time. Superv. A. F. Mies is Chmn. of Bldg. Com. Cost, $500,000.

✚The Board of Trustees, Milwaukee Public Museum, awarded following contracts on $250,000 addition: Plastering, ERNST JAHN, Milwaukee; elevators, KIECKHEFER ELEVATOR CO., Milwaukee.

Frank M. Harbach, Secy., Board of School Directors, will receive bids until Aug. 31 for the erection of the Milwaukee Public School of Trades for Boys, between Greenbush, Virginia, Hanover and College Sts., to cost $225,000. W. W. Maxwell is Arch. Noted Aug. 17.

The Board of School Directors will receive bids until Aug. 31 for furnishing all materials and doing all the work of constructing additions to and alterations in both the South and North Divison high schools, to be erected at Eighth Ave. and Odell St. and Twelfth and Center Sts., at a cost of approximately $60,000 each. Plans have been prepared by D. C. Otteson, Arch.; Frank M. Harbach is Secy.

Gimbel Bros. have purchased a site, 119 × 200 ft., on Third St., south of Grand Ave., and propose to erect a 14-story hotel building in 1912. William MacLaren is Gen. Mgr. of Gimbels' Milwaukee interests.

Bozeman, Mont.—The Park Hotel Co. has ordered the construction of a $400,000 hotel at Yellowstone, the western entrance to the Yellowstone Park, and near the terminal of the West Gallatin Rd.

St. Louis, Mo.—An edifice costing $40,000 will be erected by the Union Methodist Episcopal Congregation. Plans by William A. Cann, Central National Bank Bldg. The Rev. G. W. Anderson, 3008 Lucas Ave., is rector.

✚Houston, Tex.—The Settegast Realty Co. will erect a 4-story reinforced-concrete hotel and store building at Fannin St. The building will have a frontage of 150 ft. on Fannin St. and will run back 100 ft. in depth. It will cost approximately $100,000 and will require about eight months to construct. The contract was awarded to JOHN STADTLER.

A 5-story club building will be erected by the Houston Turnverein Ass'n on its grounds at Prairie Ave., between Caroline and Auston Sts., to cost $85,000.

✚Sulphur Springs, Tex.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a U. S. post-office at Sulphur Springs, Tex., to F. J. McKNIGHT, Hallettsville, Tex., at $43,410.

Brownsville, Tex.—The Commissioners' Court has ordered an election for Oct. 3 to vote on the proposition of issuing $230,000 of bonds for the erection of a new court-house here.

✚Denver, Colo.—The contract has been awarded to the KIRCHOF LUMBER CO., at $76,000, for furnishing all materials for the new Elks' home on 14th St. The excavation has been completed and construction will be commenced soon.

Phoenix, Ariz.—The Southern Pacific R. R. Co. has appropriated $400,000 for railroad shops in this city, in addition to those to be rebuilt at Tucson.

Ellensburg, Wash.—At a mass meeting held by the public school taxpayers of the city voted to accept the plans of the school board for a high school building and to purchase two city blocks on South Anderson St. for the site, as well as to give the board complete authority to build and equip a $65,000 structure.

✚Portland, Ore.—The contract has been awarded to the NORTHWEST STEEL CO., Portland, Ore., for the new car barns and shops of the Portland Ry., Light & Power Co., at Portland, which contain 450 tons of structural material.

Salem, Ore.—The following bids were received for the Eastern Oregon Insane Hospital: For building Portland Engineering & Contracting Co., $384,777; Ditlefsen & Gerring, Seattle, $321,959; Welch Bros., Salem, $328,588; Bingham, McClelland & Peterson, Portland, $436,767; Lewis Hicks & Co., Portland, $342,500; Olson & Johnson, Missoula, Mont., $294,675. Bids for the central heating plant were as follows: Portland Kendall Heating Co., $47,960, alternate, $45,830; Theodore M. Barr, Salem, $47,599, alternate, $48,859, $39,724; Ben Olson Co., Tacoma, $46,900, alternate, $45,700; Swanby & Schneider, Portland, $42,258, alternate, $44,258; Hassalo Engineering Co., Portland, $43,999, alternate, $41,490; G. H. Sutherland Co., Portland, $55,750, alternate, $53,000, $52,900; W. G. McPherson Co., Portland, $43,990, alternate, $41,533. The engineer's estimate was $388,000.

Los Angeles, Cal.—Eisen & Son, Archs., Wilcox Bldg., have prepared plans for a 1-story brick store building to be erected at Pico and Olive Sts. To be 165 × 74 ft.

✚KELCH & SHARP, Stimson Bldg., were awarded contract, at $43,455, for the erection of a 4-story Class A concrete factory building, 75 × 140 ft., on Stephenson Ave., for the Standard Woodenware Co. Plans by S. Tilden Norton, Consolidated Realty Bldg.

Eisen & Son, Archs., Wilcox Bldg., have been retained along with William Curlett, of San Francisco, to prepare plans for a 7-story Class A concrete building to be erected at Sixth and Figueroa Sts. for C. W. Gates, Consolidated Realty Bldg. To be 78 × 125 ft. The cost will be $185,000.

✚Contracts for the construction of the 4-story and basement reinforced concrete building, which is to be erected in Stephenson Ave., near Alameda St., for the Standard Woodenware Co., have been awarded to KELCH & SHARP. The building will be 75 × 100 ft.

✚Placerville, Cal.—The Board of Supervisors of El Dorado County awarded contract to the RANSOME CONCRETE CO., Mechanics' Institute Bldg., San Francisco, for the construction of the El Dorado County court-house, at $95,732. The highest bid received was $119,800. The structure must be completed in 265 days.

Los Angeles, Cal.—A. B. Sturges, Story Bldg., has completed plans for a 4-story reinforced-concrete warehouse, 50 × 145 ft., to be erected on Vermont Ave. for the Lyon Fireproof Storage Co.

Oakland, Cal.—O'Brien & Werner, Foxcroft Bldg., are preparing plans for a theater building (Class A construction) to be erected at Oakland. The structure will cost in the neighborhood of $250,000.

San Francisco, Cal.—Fred H. Meyer, Humboldt Bank Bldg., is completing plans for a 5-story brick and steel apartment house to be constructed at Ellis and Jones Sts., at a cost of $80,000. The exterior of the building will be faced with pressed brick, trimmed with terra cotta.

✚Henry Crocker has awarded contract through the office of Reid Bros., Call Bldg., to ANDREW WILKIE CO., San Francisco National Bank Bldg., for the construction of a 5-story class C hotel building on Mission St., at $78,373.

San Jose, Cal.—C. S. McKenzie, Bank of San Jose Bldg., has been retained to prepare plans for a labor temple by the Building Committee of the San Jose Labor Temple Association. The plans call for a 3-story concrete structure faced with pressed brick and cement plaster. The estimated cost is placed at $35,000.

✚Winnipeg, Man.—THE CARTER-HALLS-ALDINGER CO., Winnipeg, have been awarded the contract for building the Grand Trunk Pacific Ry. car shops here.

Lloydminster, Sask.—Bids will be received until Sept. 6 by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, for the construction of a public building. Plans and specifications may be obtained at office of Dept., Ottawa, or J. E. Cyr, Supt. Pub. Bldgs., Winnipeg, or at the post-office Lloydminster.

WATER SUPPLY—IRRIGATION.

(✚*Denotes a contract awarded.*)

Rutland, Vt.—The Mayor has recommended the installation of a filter plant.

✚Hardwick, Vt.—The WOODBURY GRANITE CO., of Woodbury, Vt., has been awarded the contract for building the storage reservoir for Hardwick. The dam will be of concrete, about 700 ft. long.

*__Athol, Mass.__—Bids were received by the Board of Water Commissioners on Aug. 22 for hauling and laying about 9,000 ft. of 12-in. c.-i. water pipe. The bids follow: J. M. Dineen & Son, 14 Holyoke St., Easthampton, Mass, 66⅔ cts.; W. B. Boyne, Journal Bldg., Boston, Mass., 68 cts.; W. W. Salter, Holyoke, Mass., 71 cts.; John E. Palmer, 1012 Old South Bldg., Boston, Mass., 95 cts.; Fay & Canty, Box 30, Chicopee, Mass., 99.5 cts.; A. W. Bryne Co., Hartford, Conn., $1.10; Leopardo & Way, Springfield, Mass., $1.22; Joseph Long & Co., Leominster, Mass., $1.33; L. J. Hyres & Co., Wales, Mass., $1.47; Crosby & Parker, Brattleboro, Vt., $1.66; Michael Little, Leominster, Mass., $1.75; Wm. Orlando, Beechertown, Mass., $1.75; M. De Sisto & Co., Everett, Mass., $1.75.

Salem, Mass.—An emergency supply of water is planned from Chebaco Lake, requiring the laying of 4,000 ft. of 20-in. main. Electric or gasoline pumps will be installed, and a dam on the Longham basin may be built.

✚Boston, Mass.—The contract for setting concrete meter boxes in East Boston has been awarded by the Public Works Department to CHARLES M. CALLAHAN at $5,175. Other bids were: Robert Eagar, Jr., $5,450; J. H. Ferguson & Co., $6,710; Charles J. Jacobs Co., $4,710; M. De Sisto & Co., $4,840; Thomas Burke, [illegible]; John A. Costello & Co., $6,145; [illegible] T. Shea, Jr., $6,130. Louis K. R[illegible] is Comr. Pub. Wks.

Worthington, Mass.—The Worthington Fire Dist. has decided, it is reported, to construct a water-works system. Plans have been prepared by E. E. Davis, of Northampton. Estimated cost, about $20,000.

✚Irvington, N. Y.—The contract for furnisihng and laying about 12,000 ft. of 12-in. c.-i. water pipe has been awarded to PARTRIDGE & BURK, of Lodi, N. J., at $24,303. Bids were received on Aug. 15.

✚Clinton Point, N. Y.—The contract for pump-house, dam and suction reservoir, has been awarded by the New York, New Haven & Hartford R. R. Co., to W. L. BU[illegible] JR., & CO., 1 Madison Ave., New York. The contract for the gravity pipe line has been let to the JAMES HUNTER HEATING CO. of Albany, N. Y.

New York, N. Y.—Bids will be received by H. S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Sept. 8, for hauling and laying water mains and appurtenances in various streets in the Borough of the Bronx; for furnishing and delivering chloride of lime; for hauling and setting fire hydrants and appurtenances in various streets in the borough of Manhattan; and for painting, laying cement concrete sidewalks and erecting floor at the various pumping stations.

Poughkeepsie, N. Y.—The old filtration plant at the State Hospital will be rebuilt and enlarged to a capacity of 2,000,000 gallons per day. The State Engineer is preparing plans. Hazen & Whipple are Superv. Engrs., 103 Park Ave., New York.

Schenectady N. Y.—The Board of Estimate and Apportionment has approved an ordinance providing for laying water mains in Kevlin St., Golf Ave., Fairfield Ave. and a portion of Main Ave.

Jersey City, N. J.—The Street and Water Board on Aug. 20 voted to ask the Board of Finance for an appropriation of $150,000 for new water mains from the high service reservoirs to the Greenville section. C. A. Van Keuren is Ch. Engr.

Newark, N. J.—Tentative plans and estimates are being completed by Morris R. Sherrerd, Engr. State Water Supply Comn., for the proposed State water supply. The main dam with two wing dams, pipe connections and two gate houses, will cost about $678,000, will extend across the valley a half-mile west of Midvale depot, and will be about 1,478 ft. long, 71 ft. high in the center, and the surface of the water at the spillway level will be 65 ft. above the present bed of the Wanaque River.

Philadelphia, Pa.—Bids will be received until Sept. 1 by Joseph H. Klemmer, Dir. Dept. of Supplies, for furnishing for the year 1912 iron and steel, bolts, washers, screws, c.-i. water pipe and castings, metal castings, grate bars, brass fittings, cocks, valves, etc.

Phoenixville, Pa.—Chester & Fleming, Consult. Engrs., of Pittsburgh, Pa., have been engaged to prepare plans and specifications for a water filtration plant.

Pittsburgh, Pa.—The Council has decided to construct the new filtered water reservoir for the northside on Cabbage Hill. N. S. Sprague is City Engr.

Baltimore, Md.—The Water Department will ask for bids about Sept. 15 for constructing the 192-ft. dam above Loch Raven to increase the water supply for future enlargement, providing a reservoir of 3,000,000,000 gallons. Alfred M. Quick is Water Engr.

Libertytown, Md.—Crum & Davidson, Frederick, Md., have made preliminary surveys and estimates for the construction of water-works here. Estimated cost, $16,000.

*__Ft. Washington, Md.__—Bids will be received by Lieut. D. N. Swan, Jr., Q. M., U. S. A., until 2 p. m., Sept. 20, for the construction of a 60,000-gallon steel water tank and trestle.

Kingwood, W. Va.—The town is considering the installation of a water-works system. A. Bliss McCrum, Secy. Board of Trade, is interested.

✚Clarksburg W. Va.—Bids were received by the Water-Works and Sewerage Board at the office of Schott G. Highland, Secy., on Aug. 21, for furnishing all material and constructing a concrete storage dam on the West Fork River at Lynch's Mines. The contract has been awarded to the H. C. BROOKS CO. at $9,539. Other bidders were: John I. Dick, Scottdale, Pa., $9,902; Frederick Ott, $10,190; Watson & Henry, $10,524; Joseph Fuccy, Weston, $12,225; F. Ernest Brackett, Cumberland, Md., $13,475.

✚Sisterville, W. Va.—The city has awarded the contract to DAYTON & FRANCIS, of New Martinsville, W. Va., for constructing a power-house for the municipal water-works. W. J. Alexander is Arch., New Martinsville.

Savannah, Ga.—The City Council is considering an issue of bonds for $600,000 for the extension and completion of the house drainage and storm sewerage system, including such extensions of the water-works system as may be necessary.

Jacksonville, Fla.—Bids will be received by W. M. Bostwick, Jr., Chn. Bd. Bond Trustees, until 3 p. m., Sept.

4, for furnishing, f. o. b. cars, Jacksonville, 1,000 or more c. i. meter box tops, with lock covers, to be used on 20-in. concrete box. R. N. Ellis is Supt.

Roseland, La.—The town has voted to construct a water-works system. J. M. Chapen is Mayor.

Cleveland, Tenn.—The City Water Commission will receive bids until Sept. 1 for the construction of a reservoir 150 × 190 ft., with a division wall in center, reinforced concrete construction.

Gallatin, Tenn.—The city will install additional machinery in water-works and electric light plants, including two centrifugal pumps with a capacity of 250 gallons per min.; 50-gallon-per-min. pump and motor, 4-valve non-releasing Corliss 180-HP. engine, 125-KW. engine-type generator, [illegible]00-KW. heated-type generator, with switchboard and accessories, and two 50-HP. motors. Estimated cost, $8,165.

Bellaire, Ohio.—The citizens have voted to issue $14,000 of bonds for laying water mains in South Belmont St. and the Edgehill Addition.

Byesville, Ohio.—H. L. Maddock, 503 Trust Bldg., Newark, Ohio, has been engaged to prepare plans for the construction of water-works. Estimated cost, about $50,000.

Toledo, Ohio.—Bids will be received until Sept. 29 by the Director of Public Service for the construction of a filtered water reservoir, of 15,000,000 gallons capacity.

+Cincinnati, Ohio.—The contract has been awarded to M. F. QUILL, of Cincinnati, by the Director of Public Service for laying water mains in Edwards and Grandin Roads, Delta and Columbian Ave., and Deerfield Rd., at $12,244. Noted on Aug. 24.

Springfield, Ohio.—Bids will be received until Sept. 18 by the city for a new engine for the water-works plant.

***Oak Harbor, Ohio.**—Bids will be received until Sept 7, for a 1- or 2-stage centrifugal force pump, with a capacity of 350 to 700 gallons per min. and pressure of 40 to 80 lbs. per sq. in., and two deep well pumps with necessary connections to the well pipes and rods and to the 8-in. reservoir supply pipe; two direct-connected 5 KW. direct-current, 550-volt electric motors, fuses, lightning arresters and switches, complete and installed. Information and specifications can be had from Louis L. Carstensen, Oak Harbor.

Wainwright, Ohio.—The citizens have voted $20,000 of bonds for the installation of a water-works system.

Shelbyville, Ind.—The City Council has made an appropriation for a pumping station. Bids will be asked for as soon as plans are completed.

South Bend, Ind.—Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., are preparing plans for water works improvements here. Estimated cost, $300,000.

Honor, Mich.—Bids will be received until noon, Sept. 5, by Newton W. Ely, County Clk., Honor, for the construction of a concrete weir at the outlet of Crystal Lake, Benzie County.

Stanton, Mich.—Bonds for $10,000 for the construction of a municipal water works and electric light plant have been voted by the citizens.

Lostant, Ill.—The contract will be awarded in about ten days for furnishing a pumping engine. C. A. Whitney is Pres. Bd. City Trustees.

Kenosha, Wis.—The Board of Water Commissioners contemplates additions to the mains of the water-works for supplying water to the south and southwest portions. Estimated cost, $25,000.

Manitowoc, Wis.—The citizens have voted to issue bonds for the purchase of the water-works system.

+Cherokee, Iowa.—The city of Cherokee on Aug. 7 awarded the contract for extensions to the water mains to the MIDWEST ENGINEERING CO., McCague Bldg., Omaha, Neb.

Council Bluffs, Iowa.—Bids will be received until Sept. 7 by the Water-Works Board for constructing concrete reservoirs. J. C. Jensen is Chn.

Council Bluffs, Iowa.—We are officially advised that plans and specifications are prepared by Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., for a 10,000,000-gallon concrete lined settling basin for Council Bluffs. Bids will be received in about 30 days.

Sioux City, Iowa.—Bids will be received by the City Clerk until 10 a. m., Sept. 2, for furnishing all material and labor necessary to construct a concrete foundation for machinery and a concrete floor in the Leeds pumping station. Plans and specifications may be obtained at the office of the City Engr.

Inwood, Iowa.—Bids will be received by the Town Board until Sept. 5, for the construction of a water-works system. The Missouri Valley Engineering Co., of Mitchell, S. Dak., is Engr.

Belle Plaine, Iowa.—Bids will be received until 8 p. m., Sept. 11, by the city for water-works extension. The Iowa Engineering Co. is Engr., Clinton, Iowa.

Calumet, Minn.—The citizens have voted bonds for $25,000 for the extension of the water-works system.

Faribault Minn.—The State Board of Control is considering the construction of a water-works system at the School for Feeble-Minded.

International Falls, Minn.—R. C. Fraser, City Recdr, will receive bids until 8 p. m., Sept. 11, for the construction of water-mains in various streets.

Minneapolis, Minn.—Bids will be received until Sept. 8 by Henry N. Knott, City Clk., for furnishing the following filter equipment and devices: Bucket elevator; rock crusher; trolley system; operating tables; filtered water recording gages; chemical recording gages.

+St. Clair, Minn.—Contracts for constructing water-works here have been awarded as follows: Laying mains, to W. D. LOVELL, Minneapolis, at $3,760; tower and tank, to DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, $4,146; sinking 8-in. well, to GRIFFITH & WALKER, Zion City, Ill., at $3.80 per ft. Bids were received on Aug. 11.

Hill City, Kan.—The citizens on Aug. 17 voted in favor of installing a water-works system and an electric light plant.

Rago, Kan.—The Santa Fe System has appropriated $6,800 for installing well pumps, etc., at Rago. C. A. Morse is Ch. Engr., Topeka, Kan.

Bellevue, Neb.—The citizens have voted bonds for the construction and maintenance of artesian wells.

Bethany, Neb.—The village has voted bonds for $20,000 for the installation of a municipal water system.

Malino, Neb.—All bids received on Aug. 10 for the construction of a water-works system have been rejected. New bids will be received until Sept. 8. Estimated cost, about $7,300. Bruce & Standeven are Engrs., Bee Bldg., Omaha.

Ogallala, Neb.—Bids received on Aug. 11 for constructing water-works here have been rejected. New bids will be received about Sept. 5. Bruce & Standeven are Engrs., Bee Bldg., Omaha, Neb.

Omaha, Neb.—Bids will be received by the Water Board until 4 p. m., Sept. 6, for furnishing, f. o. b. Omaha, about 185 tons of 14-in. c. i. water pipe; one ton of 8-in. c. i. water pipe; seven tons of special castings; two 14-in. water main gate valves; three 6-in. water main gate valves; one 6-in. Mathews 3-way fire hydrant; five c. i. valve boxes and covers; 7,000 lbs. of pig lead; 150 lbs. of jute packing. Each item is to be bid upon separately. Arnold C. Koenig is Secy.

Brainerd, Neb.—The contract for the installation of the water plant here has been awarded to C. F. ROBECK, of Aurora, Neb., at $15,000.

Hecla, S. Dak.—The citizens have voted to issue $8,000 of bonds for the extension of the municipal water-works system.

Henry, S. Dak.—Bids will be received by the Town Council until Sept. 12 for the construction of a water-works system. The Missouri Valley Engineering Co., of Mitchell, S. Dak., is Engr.

Vermillion, S. Dak.—Bids will be received by the City Commissioners until Sept. 11 for constructing a steel tower and tank. The Missouri Valley Engineering Co., of Mitchell, S. Dak., is Engr.

Dunseith, N. Dak.—Bids will be received until Sept. 11 by the Board of Trustees of the North Dakota Tuberculosis Sanitarium, Dunseith, for the construction of a water system, consisting of concrete basin, water mains, standpipe, and pumping station, and also for the construction of a sewer system with septic tank, trunk line, manholes, etc. H. G. Lykken, of Grand Forks, N. Dak., is Engr.

***Fargo, N. Dak.**—E. R. Orchard, City Audr, will receive bids until 5 p. m., Sept. 5, for the construction of a pumping station and electric light plant, comprising building, a 100-ft. brick or steel chimney, low lift pumps and pit, intake in river, steam and exhaust pipe, foundations for pumps and boilers, 18-in. Venturi or simplex meter, suction pipe, wet well, etc.

Powell, Wyo.—Bids will be received until 2 p. m., Oct. 2, by the U. S. Reclamation Service, Powell, for the construction of ditches and culverts in the vicinity of Powell and Garland, Wyo. The work involves the excavation of about 179,000 cu. yds. of material and the construction of about 2,000 lin. ft. of wooden box culverts. For particulars address the United States Reclamation Service, Powell; Helena, Mont., or Washington, D. C. F. H. Newell is Dir.

Belton, Mont.—All bids received by the Secretary of the Interior, Washington, D. C., on Aug. 16, for erecting four frame administration buildings and installing water and sewerage systems in connection on the west side of Lake McDonald, near Fish Creek, in Glacier National Park, Mont., have been rejected. The work, it is reported, will not be readvertised. W. R. Logan is Supt., Belton, Mont.

+Harlem, Mont.—The contract has been awarded to the AMERICAN LIGHT & WATER CO., Chicago, Ill., by the city for the construction of the municipal water system at $30,940.

Kirkwood, Mo.—The city has voted $10,000 of bonds for improving water and light plant. Address the Mayor.

Montgomery, Mo.—The city has voted $20,000 of bonds for constructing water-works and a sewer system.

Walnut Ridge, Ark.—The citizens on Aug. 15 voted in favor of the installation of a water-works system.

Fort Sam Houston, Tex.—Bids will be received by P. W. Guiney, Constr. Q. M., U. S. A., until 11 a. m., Sept. 26, for the construction of an extension to the 10-in water distributing system, about 3,710 lin. ft.

Abilene, Tex.—The city has voted $20,000 of bonds for the purchase of a site for a new water supply. W. O. Shackleford is Comr:

Paducah, Tex.—The citizens on Aug. 14 voted to issue $27,000 of bonds for the construction of a water-works system. The Fountain-Shaw Engineering Co., of Dallas, Tex., is Engr.

Paris, Tex.—The city is considering issuing bonds for $35,000 for improvements to and increasing the water supply at the city lake, six miles west of the town.

Alice, Tex.—The taxpayers have voted to issue $20,000 of bonds for installing a water works plant and distributing system.

Balmorhea, Tex.—G. W. Stancliff will install a system of irrigation. Other wells for irrigating purposes will be drilled in the San Dio Valley.

Brownsville, Tex.—The Indiana Co-Operative Canal Co. has let the contract to J. C. DEBRUIN of Brownsville for rebuilding its canal system. The pumping plant will also be equipped with new machinery.

***Chillicothe, Tex.**—Bids will be received by the Mayor and City Council until 6 p. m., Sept. 7, for the purchase by the city of all material required in the construction of water-works system, including boilers, heater, pumps, water-works pipe, valves, hydrants and tank and tower. Quantities and specifications can be had by addressing the O'Neil Engineering Co., Consult. and Superv. Engrs., 1503-8 Praetorian Bldg., Dallas, Tex.

Del Rio, Tex.—The Del Rio Water Co. will install a 200,000-gallon steel storage tank and make other additions to its water-works plant and distributing system.

Hearne, Tex.—The O'Neil Engineering Co. of Dallas, Tex., has been engaged by the City Council as Engr.-in-charge of installing the water-works plant and distributing system here.

Paris, Tex.—We are officially advised that the city is considering raising and strengthening the clay dam at the water-works. Estimated cost, $10,000 to $12,000. J. W. Crook is Engr., Paris.

Pecos, Tex.—The Zimmerman Land & Irrigation Co. has been formed with a capital stock of $200,000, to construct a large system of irrigation in Pecos County. The incorporators are: D. Zimmerman, James W. Fogelman and Silas E. Rice.

Hobart, Okla.—The city has voted $30,000 of bonds for water-works extension. C. G. Long is Mayor.

Muskogee, Okla.—Bids were received as follows on Aug. 15 by the city for about 2,000 meters: Standard Meter Co., New York, $19,950; Hersey Mfg. Co., Boston, Mass., $13,500; Thompson Mfg. Co., New York, $18,000; Buffalo Meter Co., Buffalo, N. Y., $13,500; Budger Meter Mfg. Co., Kansas City, Mo., $12,900; Union Water Meter Co., Worcester, Mass., $15,000; Pittsburg Meter Co., Pittsburg, Pa., $18,900; Henry R. Worthington Co., New York, $17,000; National Meter Co., New York, two bids of different types of meters, both bids totaling $29,000.

Oklahoma City, Okla.—A commission of three engineers will soon begin preparing plans for a permanent water supply for Oklahoma City, with instructions to plan a water supply to serve a city of 150,000 population.

Pawhuska, Okla.—Plans are under way for the construction of a water-works and electric light extension here. Estimated cost, $50,000 and $10,000, respectively. The work will include 6,000 ft. of flow line, more filters and settling basins, and reservoir extensions to additions to the city. Albert York is City Clk.

Milliken, Colo.—The citizens on Aug. 15 voted to issue $15,000 of bonds for a new water-works system. The deep water artesian well now in operation will be used, its flow being sufficient to supply a city of 5,000.

Perry, Utah.—The citizens have decided to install a water-works system, bonds for $10,000 having been voted. A reservoir will be built.

Downey, Idaho.—We are officially advised that bids will be received about Sept. 15 for the construction of new water-works for the Downey Water Co., recently incorporated. Estimated cost, $20,000. E. M. Blake of Boise, Idaho, is Engr. John Ware is Asst. Treas.

+Astoria, Ore.—The Board of Water Commissioners has awarded the contract to BIDWELL, HAYDEN & CO., Portland, Ore., for the construction of a concrete reservoir dam, and cleaning the site, at $64,890 and $10,000 respectively.

San Jose, Cal.—Bids will be received by H. M. Ayer, Chn., Board of Supervisors, San Jose, until 11 a. m., Sept. 5, for delivery at railroad depot at Milpitas 6,200 ft. of 4-in. standard steel pipe, bidders to state price separately for black pipe and for asphaltum dipped pipe. Henry A. Pfister is County Clk.

Los Angeles Cal.—The U. S. Reclamation Service received bids as follows on Aug. 21 at Los Angeles for butterfly gates, Boise project, Idaho: Fulton Engine Works, Los Angeles, $9,848; Moran Co., Seattle, Wash., $12,864.

Pasadena, Cal.—Property owners of the northwestern part of the city have organized the North West Land & Water Co., with a capital stock of $20,000. Papers of incorporation will be filed at once. The company will install a riveted steel water system throughout the district, comprising 300 acres. Estimated cost, $15,000. The pipe to be laid will be 4-in. and 12-in.

San Francisco, Cal.—The lowest bid received by the city for hauling and laying the pipe for the fire-protection system in the district bounded by Market, Eleventh, Division, Townsend and East Sts. has been submitted by HEALY & TIBBITTS CO., 9 Main St., San Francisco, at $110,500 and contract awarded to the firm at that price.

St. Rose, Que.—Bids for the construction of the St. Rose aqueduct will be received by J. E. David, Village Secy-Treas., until Sept 15.

Toronto, Ont.—Bids will be received, addressed to G. R. Geary, Chn., Bd. of Control, until noon, Sept. 5, for the supply of 600 ft. of 16-in. steel riveted or lap-welded pipe and 420 ft. of 12-in. welded steel pipe. Plans and specifications may be seen and forms of tender obtained at the office of C. H. Rust, City Engr.

+MILLER, CUMMING & ROBERTSON, of Toronto, have been awarded the contract by the Board of Control for the construction of the 500-ft. extension of the water-works intake, at 20% over and above the cost of pipe-laying.

Winnipeg, Man.—Bids will be received by M. Peterson, Secy. Bd. of Control, until 11 a. m., Sept. 8, for the supply of a quantity of valves and hydrants for the domestic water-works system. Specifications and forms of proposal, together with conditions governing bids, may be obtained at the office of the City Engineer.

Dauphin, Man.—Bids will be received by J. W. Johnston, Secy.-Treas., until 8 p. m., Sept. 5, for constructing the following works: Contract I, dam and gate house in Riding Mountains, for water-works reservoir; Contract P, substructure sewage pumping station in Dauphin. Plans may be seen at Dauphin or at the offices of Chipman & Power, Engrs., Toronto and Winnipeg.

SEWERAGE.

(**Denotes that this work is advertised in Engineering News.*)

+Boston, Mass.—A contract for laying 1,700 ft. of 12-in high-service pipe in South Boston has been awarded by the Public Works Department to DANIEL DE PIETRO. Louis K. Rourke is Comr. of Pub. Wks.

Boston, Mass.—See item under Sts. & Rds.

+New Bedford, Mass.—We are officially advised that the contract for furnishing c. i. pipe and special castings for the outfall in Buzzards Bay of the intercepting sewer has been awarded to the WARREN FOUNDRY & MACHINE CO., New York City, at $44,704. The other bidders were R. D. Wood & Co., $47,160; United States Cast Iron Pipe & Foundry Co., $51,474; William F. Williams is City Engr.

Buffalo, N. Y.—Bids will be received by the Department of Public Works, F. G. Ward, Comr., until Sept 1, for constructing 30 and 27-in. brick and 24 and 18-in. tile sewers in Suffolk St., 24, 20, 18, 15 and 12-in. tile sewer in Cambria St., and 15, 12 and 10-in. tile sewers in Rutgers, Bowdoin and other streets.

New York, N. Y.—Bids will be received by Lawrence Gresser Pres. of the Boro. of Queens, Borough Hall, until Sept. 11, to construct a temporary dry weather flow sewer and appurtenances in Rockaway Road, from Lefferts Ave. to Panama St.; in Panama St., from Rockaway Road to Stanley Ave.; in Stanley Ave., from Panama St. to Shenandoah St., and in Shenandoah St., from Stanley Ave. to the Jamaica sewage disposal plant, Fourth Ward. To construct a sewer and appurtenances in Pleasure Ave., from Second Ave. to Lawrence St., First Ward. To construct a sewer and appurtenances in Wilson Ave., from Twelfth Ave. to 13th Ave., First Ward. To construct a sewer and appurtenances in Jamaica Ave., from 13th Ave. to 18th ve., First Ward. To construct a sewer and appurtenances in Hunter Ave., from Skillman Place to Academy St. and Wilbur Ave., First Ward.

New York, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., Sept. 11, for constructing sewers in various streets.

New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Sept. 11, for rebuilding sewer and appurtenances in 33d St., between Sixth and Seventh Aves.

+Yonkers, N. Y.—Bids for constructing a sewer in Palisade Ave., from Roberts Ave., 685 ft. northerly, have been received as follows: KELLY & HANNIFIN, $5,578 (awarded contract); McDonald & Murray, $5,985; Canepi, $6,300; Cuozza, $6,912; Fischer, $7,037; Grady, $7,200; O'Rourke Co., $7,245; A. Cianfaglione, $7,277; Ferguson & Callahan, $9,467; Charlton & Weston, $9,800.

Yonkers, N. Y.—Bids will be received by James V. Mahony, Secy. Bd. Contract and Supply, until Sept. 5, for constructing the first section of the Nepperhan Valley sewer. The work consists of the construction of a house sewer and appurtenances, including a screening and settling plant and pumping station, in the Nepperhan river valley from Lake Ave. to the Sawmill River Road, near Second St., and in Lake Ave. from the Nepperhan River to the Nepperhan Ave. sewer, in accordance with the plans and specifications of Samuel L. Cooper, City Engr. The work will include 5,105 lin. ft. of 27-in., and 593 lin. ft. of 24-in. vitrified pipe sewer, 33 manholes, 13 connections for future sewers, a pumping station of concrete and brick, a screening plant of concrete tanks, a bye pass of 24-in. pipe, an emergency overflow of 30-in. pipe, two centrifugal pumps operated by electrical motors, and the grading, walling and fencing of the site for the disposal plant. Plans and specifications and contract forms are procurable from the Secretary.

Dunkirk, N. Y.—The Common Council has accepted the plans of J. M. Hackett, City Engr., for the construction of one mile of sewers, estimated at $20,000.

✚Lebanon, Pa.—Press reports state that a contract for sewer construction has been awarded to the CANTREL CONSTRUCTION CO., Parkersburg, W. Va., at $70,000.

Washington, D. C.—Bids were received on Aug. 24 by the Commissioners of the District of Columbia for constructing the Massachusetts Ave. trunk sewer, as follows: (a) E. G. Gummel; (b) James A. Coyle; (c) Warren F. Brenizer Co.; (d) Lyons Bros., all of Washington, D. C.: ordinary excavation, (a) 70 cts.; (b) 80 cts.; (c) 50 cts.; (d) $1.10. Concrete masonry "D," (a) $7; (b) $7.50; (c) $6.50; (d) $10. Vitrified brick masonry, (a) $22; (b) $20; (c) $20; (d) $25. Sewer brick masonry, (a) $14; (b) $14; (c) $14; (d) $18. 6-in. diameter sub-drain pipe, (a) 30 cts.; (b) 30 cts.; (c) 30 cts.; (d) 55 cts. Totals: (a) $27,492; (b) $28,662; (c) $24,412; (d) $38,622.

Farmsville, Va.—The City is asking bids for sewer construction through southwestern portion of city, total length 4,500 ft. A bond issue for $15,000 has been voted. H. A. Stecker is City Engr.

Timmonsville, S. C.—Bids will be received by the Mayor and Board of Aldermen until Aug. 31, for an extension of the sewer system to consist of 9,000 lin. ft. of 8-in. vitrified pipe, 250 lin. ft. of 12-in. vitrified pipe, 200 Y branches, 28 manholes and 16 5-in. siphon flushtanks. J. Newton Johnston, Florence, S. C., is Engr.

Savannah, Ga.—See item under Water Supply—Irrigation.

Bucyrus, Ohio.—Bids were received on Aug. 23 for the construction of sewers in Mary, Perry, Jump, Sears, Myers and Ann streets, as follows: Boyd & Cook, Dayton, Ohio, $5,982; J. L. Smith, Lorain, Ohio, $6,333; Amos T. Trainer, Huntington, W. Va., $6,371; F. J. Barth, Bucyrus, $6,340; L. P. Battefeld, Bucyrus, $6,144; Thomas F. Hurley, Marion, Ohio, $7,177; Oberlander & Oberlander, Bucyrus, $6,808; John H. Nickum, Bucyrus, $5,546.

***Shreve, Ohio.**—We are officially advised that bids for constructing a sanitary sewer system were received on Aug. 18, as follows: Fred B. Davies, Ironton, Ohio, $18,913; E. L. McReynolds, Cleveland, Ohio, $16,900; Thos. F. Hurley, Marion, Ohio, $19,285; Sheets & Sheets, Newcomerstown, Ohio, $19,246; J. L. Smith, Lorain, Ohio, $17,718; Jos. Perry & Co., Canton, Ohio, $17,950; Van Meter Construction Co., Steubenville, Ohio, $14,965. The only bid received for constructing a sewage-disposal plant was submitted by Seymore Rennick, Findley, Ohio, at $6,457. L. E. Chapin is Engr. Noted Aug. 10.

Toledo, Ohio.—Bids will be received by the Board of Public Service, F. Shane, Secy., until Sept. 5, for constructing sewers in several alleys.

✚Hartford City, Ind.—The Commissioners of Blackford County have awarded a contract for the construction of the Vance ditch in Jackson township to C. H. CRONINGER at $7,400.

South Bend, Ind.—The Board of Public Works will ask bids for the construction of a sewer in Wayne St. from Columbus St. to the St. Joe River, as soon as the plans and specifications are completed. Arthur P. Perley is City Clk.

Bushnell, Ill.—Press reports state that bids will be received by the City Clerk until Sept. 7, for constructing about five blocks of sewers.

✚Chicago, Ill.—A contract for constructing a sanitary sewer has been awarded to WM. MORAN & CO., Joliet, Ill., at $45,511. The other bidders were: William Davidson, Wilmette, $48,657; Dearborn & Jackson, Cedar Rapids, Iowa, $48,216; N. F. Reichert, Racine, Wis., $47,744; Thomas J. Killian, North Chicago, $46,916.

✚Florence, Wis.—We are officially advised that the contract for laying 1,098 ft. of 10-in., 5,239 ft. of 12-in. and 2,928 ft. of 8-in. pipe sewers, depth 3 to 12 ft., has been awarded to J. R. HOLFILTZ, Iron Mountain, Mich., at $6,162. O. G. Johnson is City Clk., and W. G. Kirchoffer, City Engr. Noted July 27.

Belle Plaine, Iowa.—Bids will be received until Sept. 11, for constructing 11½ miles of 8 to 18-in. sanitary sewers. S. J. Ferree is City Clk., and Chas. P. Chase, of the Iowa Engineering Co., Clinton, Iowa, is Engr.

***Primghar, Iowa.**—Bids will be received by W. H. Downing, Town Clk., until 10 a. m., Sept. 6, for furnishing all labor and material for the construction of approximately 3,036 ft. of 8-in. sewer and sewerage-disposal plant in accordance with plans and specifications on file in the office of M. Tschirgi & Sons, Dubuque, Iowa.

✚West Liberty, Iowa.—A contract has been awarded to the LYTHE CONSTRUCTION CO., Sioux City, Iowa, for constructing six miles of sanitary sewer and a disposal station.

Columbus, Kan.—Bids will be received by F. H. Hawkins, City Clk., until Sept. 11, for about 15 miles of 8 to 15-in. vitrified pipe sanitary sewers and disposal works. M. A. Earl & Co., Muskogee, Okla., or First National Bank Bldg., Chicago, Ill., are Engrs.

Seneca, Kan.—We are officially advised that bids will be received for sanitary sewers and sewage-disposal works at Seneca in about thirty days. Approximate cost of work, $50,000. Burns & McDonnell, Kansas City, Mo., are Engrs.

Wichita, Kan.—Bids will be received by Wm. Sence, City Clk., until Sept 5, for constructing main for sanitary sewer No. 20, double ring brick or concrete sewer as follows: 9,750 lin ft. 48-in., 14,300 lin. ft. 45-in., 11,675 lin. ft. 42-in. and 2,635 lin. ft. 39-in.; 590 lin. ft. 30-in. single ring brick or concrete sewer, 3,950 lin. ft. 12, 15 and 18-in. vitri. tile sewer, one outlet protection, 105 manholes, 31,500 lbs. castings, 9 storm sewer crossings. Bert C. Wells is City Engr.

California, Mo.—Plans and specifications are being prepared by Burns & McDonnell, Engrs., Kansas City, Mo., for sanitary sewers. Approximate cost, $50,000.

Cleburne, Tex.—Plans and specifications have been completed by Burns & McDonnell, Engrs., Kansas City, Mo., for sanitary sewers and sewage disposal at Cleburne. Estimated cost, $200,000.

Salt Lake City, Utah.—We are officially advised that bids for the extension of the gravity outlet sewer have been received as follows: (a) flume; (b) ditch; J. S. Hilend, (a) $11,300, Maginnis galvanized steel; $14,240, corrugated iron; $16,200, wood stave; Jas. J. Burke & Co., (a) $13,078, $12,637, $16,312; Bryant Young, (a) $13,505, $18,650, $14,975; (b) $11,007; J. W. Percival, (a) $15,552, $15,699, $16,850; John Holt, (b) $12,012; Johnson & Smeather, (b) $13,049. G. F. McGonagle is City Engr. Noted Aug. 3.

✚Lindsay, Cal.—CHAMBERS & HEAFEY, San Francisco, have been awarded a contract at $59,660 for the construction of the municipal sanitary sewer system.

✚Pacific Grove, Cal.—We are officially advised that contracts for sewer construction were awarded on Aug. 14, as follows: for laying 3,860 lin. ft. of 48-in. and 793 lin. ft. of 54-in. reinforced-concrete pipe, to C. D. VINCENT, Oakland, Cal., at $21,306; for excavating, constructing retaining walls, curb and gutter, etc., to F. E. CLARK, Sacramento, Cal., at $20,700. The total bids were as follows: C. D. Vincent, Oakland, Cal., sectional pipe, $52,384; William Heafey, Phelan Bldg., San Francisco, Cal., monolithic pipe, $40,517; Williams and Belser, Monadnock Bldg., San Francisco, Cal., sectional pipe, $52,558; Esterly Construction Co., San Francisco, Cal., monolithic pipe, $50,358; T. A. Work Co., Pacific Grove, Cal., sectional pipe, $53,775; F. E. Clark, Sacramento, Cal., monolithic pipe, $40,639; Frank Wimmer, Monterey, Cal., sectional pipe, $49,774; Cotton Bros., Oakland, Cal., sectional pipe, $24,455 (bid on pipe only). T. B. Hunter, of Hunter & Hudson, Monadnock Bldg., San Francisco, is Design. & Consult. Engr. Noted Aug. 3.

Hamilton, Ont.—Bids will be received by Geo. H. Lees, Chn. Bd. Control, until Sept. 6, for constructing sewers in portions of Cumberland Ave., King, Linden, Munro and other streets.

Dauphin, Man.—See item under Water Supply-Irrigation.

GARBAGE DISPOSAL.

(✚*Denotes a contract awarded.*)

Boston, Mass.—Bids for erecting two sanitary buildings in South Boston will be received by the Park Commission until Sept. 7. R. S. Peabody is Chn. Comn.

Utica, N. Y.—The Board of Contract and Supply has authorized its Secretary to ask for bids for sweeping the streets. The present 5-year contract expires on Oct. 1. A new departure in specifications provides for proposals for one year and three months, three years and three months and four years and three months.

***Paterson, N. J.**—Bids will be received by the Board of Public Works until 4 p. m., Oct. 17, for the following: (a) For furnishing all material and labor required for the complete construction and equipment of one garbage and refuse incinerating plant; (b) alternative bids for furnishing the plans, working drawings, and rights under all patents for the City of Paterson to construct and equip one garbage and refuse incinerating plant; (c) bids for furnishing all material and labor for the erecting of a driveway and platform. The plans and specifications require the erection complete of an incinerating plant having a capacity of 60 tons of mixed municipal waste per 24 hrs. The bids for rights for the city to build will contain complete plans and working drawings for the proposed plant. Bidders will be required to furnish evidence of having built at least one incinerating plant of the type proposed and now in successful operation. No untried types of incinerating furnaces will be considered. The time for completion of the work of incinerating plant and driveway and platform will be 180 working days. Joseph McCrystal is Pres. Bd. For further details see advertisement in this issue.

✚Ottawa, Ont.—The City Council, it is reported, has awarded a contract to LAURIE & LAMB for constructing an incinerator at $34,650.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

✚Boston, Mass.—The contract for repairing Berkeley and Stanhope Sts. and St. James Ave. has been awarded by the Public Works Department to the GENERAL CONSTRUCTION CO., at $7,834. Other bids were: F. S. & A. D. Gore Corp., $9,928; John T. Shea, Jr., $8,190; John McCourt & Co., $8,377; McGuire & Kiernan, $8,233.

Boston, Mass.—Bids will be received until Sept. 5 by Public Works Department for the construction of a tar macadam roadway in Bay St., Dorchester, and for pipe surface drains in Glenville Ave., Brighton. Louis K. Rourke ic Comr. Pub. Wks.

✚Boston, Mass.—A contract for the construction of a macadam roadway in First Ave., Dorchester, has been awarded to the WM. J. RAFFERTY CO. Louis K. Rourke is Comr. Pub. Wks.

Boston, Mass.—Bids will be received until Sept. 4 by the Public Works Department for artificial walks, etc., in Thetford Ave., Dorchester, and for paving in Greenleaf St., Roxbury. Louis K. Rourke is Comr. Pub. Wks.

Salem, Mass.—Bids will be received until Sept. 1 by the Commissioner of Streets for 45,000 paving blocks. P. J. Kelley is Comr.

Hartford, Conn.—Bids will be received by James H. Macdonald, State Highway Comr., State Capitol, until 2 p. m., Sept. 5, for the following State road work.

Town of Madison, 16,120 lin. ft. heavy grading on the Killingworth Turnpike. Plans and specifications with E. A. Chittenden, First Selectman, East River, Conn.

Town of Old Lyme, 2,335 lin. ft. macadam-telford road, very light grading, 16-ft. travel way. Plans and specifications at office of Selectmen, Old Lyme.

Town of New Fairfield, 2,417 lin. ft. heavy grading, 14-ft. travel way. Plans and specifications with Norris Hatch, First Selectman, New Fairfield, Conn.

Town of Watertown, 1,900 lin. ft. macadam or gravel and 3,110 lin. ft. gravel-macadam road, medium grading, 16-ft. travel way. Plans and specifications with J. G. Skilton, First Selectman, Watertown.

Town of Fairfield, 2,900 lin. ft. gravel road, medium heavy grading on Greenfield Road. Plans and specifications with C. S. Fox, First Selectman, Fairfield.

Town of Burlington, 4,912 lin. ft. heavy grading on the River Road. Plans and psecifications with E. H. Gillette, First Selectman, Burlington.

Town of Wethersfield, 682 lin. ft. macadam, including a reinforced-concrete arch culvert. Plans and specifications with A. W. Hanmer, Wethersfield.

✚Hartford, Conn.—The contract for the construction of a section of State road, gravel-telford, in the Town of Lebanon, has been awarded to the B. N. BEARD CO., Shelton, Conn., at 98 cts. per lin. ft. for gravel, 80 cts. per lin. ft. extra for telford, and $1 per lin. ft. for rubble drain.

✚New Haven, Conn.—C. W. BLAKESLEE & SON, New Haven, have been awarded contracts for paving the following streets: Livingston St., macadam, $15,193; Silver St., macadam, $5,104; Prince St., Bermudez road asphalt, $4,373; Portsea St., asphalt, $4,238; Sherman Ave., asphalto, $16,680; Norton St., asphalto, $15,162; Bishop St., macadam, $13,032.

Stamford, Conn. — Bids will be received by the City Clerk until Sept. 5 for paving Elm St. with brick, about 6,500 sq. yds. The cost is estimated at $20,000.

Corinth, N. Y.—The taxpayers have voted to bond the village for not less than $44,000 to macadamize five of the principal streets.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Sept. 6, for constructing sidewalks and fences on various streets in the Borough of Brooklyn.

New York, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10.30 a. m., Sept. 6, for constructing sidewalks and fences on various streets.

New York, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., Sept. 11, for regulating, grading and repaving various streets.

New York, N. Y.—Bids will be received until 2 p. m., Sept. [illegible], by George McAneny, Pres. Boro. Manhattan, for regulating and repairing various streets; also for maintaining the asphalt pavements on various streets; and fro repaving with sheet asphalt with close binder on concrete foundation the roadway of Fifth Ave., from 42d St. to 48th St.; and widening and repaving with sheet asphalt with close binder, on concrete foundation the roadway of Fifth Ave., from 48th St. to 59th St.

✚Yonkers, N. Y.—The Board of Contract and Supply, has received bids for regulating and grading Palisade Ave., as follows: THOMAS GRADY, $6,600 (awarded contract); Joseph Canepi, $6,600; Frank A. Cianfaglione, $6,847; McDonald & Murray, $6,583; Kelly & Hannifin, $7,388; Joseph L. Cuozza, $7,801; Charlton & Weston, $7,939; Anthony Fischer, $8,542.50; O'Rourke Constructing Co., $9,238. For regulating and grading Sherwood Ave., from St. James Terrace to Ridgewood Ave.: A. CIANFAGLOINE, $11,449 (awarded contract); T. Grady, $12,000; J. L. Cuozza, $13,663; O'Rourke Co., $13,674.

Newark, N. J.—Bids were received by the Board of Public Works on Aug. 17 for the repaving of Market St., from the Court House to the Pennsylvania Railroad Station, as follows: Standard Bitulithic Co., $65,150; J. F. Shanley Co., $67,525. Noted Aug. 10.

Haledon, N. J.—Bids will be received until Sept. 1 by Lawrence L. Hines, Boro. Clk., for macadamizing Roe E. Barbour and Mangold Sts. and Bushman Ave., and for grading Bushman Ave.

✚Bedford, Pa.—A contract has been awarded by the State Highway Department to SAUPP & HERR, Altoona, Pa., for the construction of a State road between Bedford, Johnstown and Hollidaysburg.

✚A contract for repairing the road between ligonier and Stoyestown has been awarded to J. H. McQUAIDE, Pittsburgh.

Braddock, Pa.—Bids will be received until 3 p. m., Sept. 5, by C. A. Stewart, Municipal Bldg., North Braddock, Pa., for the improvement of various streets in North Braddock.

Harrisburg, Pa. — We are officially advised that bids for constructing the Narrows Road were received by the State Highway Department on Aug. 23, as follows: 34,794 ft. in Juniata County: D. E. Sullivan & Sons, Clinton Bldg., Columbus, Ohio, $147,462; Charles J. Carothers, Greensburg, Pa., $147,492; United Ice & Coal Co., Harrisburg, Pa., $192,639; J. M. Francis, Punxsutawney, Pa., $130,497; Niagara Construction Co., Corning, N. Y., $161,659; Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, $177,104; Fiss & Christians, Shamokin Dam, Pa., $129,420; John McMenamy, 319 E Lehigh Ave., Philadelphia, $168,485; Ed Ryan, Springfield, Ohio, $213,248; S. Pearson & Son, Inc., 507 Fifth Ave., New York, $143,472; Wm. C. Evans, Ambler, Pa., $158,111; W. E. Howley, Pittsburgh, $142,870; W. H. Lyons, Sunbury, Pa., $198,518; 22,560 ft. in Mifflin Co.: S. Pearson & Son, Inc., 507 Fifth Ave., New York, $134,138; Wm. C. Evans, Ambler, Pa., $140,433; United Ice & Coal Co., Harrisburg, Pa., $162,741; Edw. T. Beck & Co., Warren, Pa., $140,698; W. H. Lyons, Sunbury, Pa., $186,381; John McMenamy, 319 E. Lehigh Ave., Philadelphia, $149,451; Fiss & Christiano, Shamokin Dam, Pa., $108,406; Ridge Bros. Co., Pittsburgh, Pa., $124,812; W. E. Howley, Pittsburgh, Pa., $102,755; Ed. Ryan, Springfield, Ohio, $162,234; Filbert Paving & Construction Co., Philadelphia, Pa., $153,718; R. J. Malone & Co., Washington, D. C., $143,159; Chas. J. Carothers, Greensburg, Pa., $147,963. L. F. Neefe, is Ch. Clk. Noted Aug. 3.

✚Linesville, Pa.—The contract for Mercer and Penn St., paving has been awarded to GEO. A. HARRIS, Linesville.

Pittsburgh, Pa.—Press reports state that bids will be received by the Board of County Commissioners until Sept. 10, for improving three roads, a total distance of 5.5 miles. I. K. Campbell, J. D. O'Neil and S. J. Toole are Comrs.

Pittsburgh, Pa.—Bids will be received by R. J. Cunningham, County Controller, until 10 a. m., Sept. 12, for the improvement of various roads and highways in Allegheny County.

Baltimore, Md.—Bids will be received by the Board of Awards until Sept. 6 for grading curbing, guttering and paving with asphalt macadam on Keyworth Ave. Specifications can be obtained on application at office of Commissioners for Opening Streets, City Hall.

Jonesville, Va.—Lee County will improve 140 miles of road, 80 miles to be macadamized and 60 miles graded. Lee County Supervisors and J. St. J. Wilson, State Highway Comr., Richmond, will receive bids.

Portsmouth, Va. — Seventh Ward Board of Improvements, D. F. Applenseller, Chn., is having specifications prepared by Bascom Sykes, Engr., for street improvements, to cost about $50,000.

Tazewell, Va.—Bids will be received by the County Clerk until Aug. 31 for grading and macadamizing the following roads in the three magisterial districts of Tazewell County: Clear Fork Dist. eight miles; Jeffersonville Dist., 12 miles; and Maiden Spring District, 15 miles. F. Thompson is Clk. Bd of Supervs.

Fayetteville, W. Va. — Press reports state that bids will be received by H. W. Claypool, City Recdr., until Sept. 2, for constructing various concrete or cement sidewalks.

+Bridgeport, W. Va.—A contract for rebuilding the High Ridge Pike has been awarded to ROSSER, MALONEY & HAMMOND, Bellaire, Ohio, at $22,433.

Jacksonville, Fla.—Bids will be received by the Board of Commissioners of Duval County, until 10 a. m., Sept. 6, for paving the Duval Road from the end of the present shell road to Duval Station, with clay macadam gravel. Specifications and proposals will be furnished upon application to Gail L. Barnard, County Engr., Court House, Jacksonville.

Hill City, Tenn.—Bids will be received until Sept. 15 for paving Frazier Ave. and a part of North Market St. E. E. Betts is Engr.

+Knoxville, Tenn.—The contract for grading Eighth St. and Clinch Ave. has been awarded to the BARBER ASPHALT PAVING CO.

+Louisville, Ky.—Contracts for paving have been awarded as follows: Bardstown Road, from Shady Lane to Douglas Boulevard, AMERICAN STANDARD ASPHALT CO., at $1.92 per sq. yd., total $42,600; Hite Ave. and other streets, LOUISVILLE ASPHALT CO., at $1.90 per sq. yd., total, $15,000. Noted Aug. 10.

Paducah, Ky.—Bids will be received by the Board of Public Works until Sept. 5, for the construction of concrete sidewalks, driveways and gutters, granite curb and c.-i. drain pipe.

+Batavia, Ohio.—Contracts for macadamizing were awarded to RADEBAUGHT & IMBODEN, on Aug. 21, as follows: one mile of road in Clermont County, at $12,440; the Millers Corner-Saltair Road, at $6,612.

McConnelsville, Ohio. — Bids will be received by the Board of Commissioners of Morgan County until Sept. 5, for grading and macadamizing 1.23 miles of road in Penn and Winsor Townships. Estimated cost, $9,189.

+McConnelsville, Ohio. — The MUSKINGUM CONSTRUCTION CO., Zanesville, was awarded the contract for the improvement of the Barnesville Road, in Morgan County, on Aug. 23, at $16,453.

Mansfield, Ohio. — Bids will be received by the Board of Commissioners of Richland County until Sept. 9, for grading and macadamizing 3.37 miles of road in Madison and Springfield Townships. Estimated cost, $24,648.

Portsmouth, Ohio. — Bids were received on Aug. 18 by the Board of Service for street improvements as follows: Glover St., from Second to Gallia Sts., Kelly Bros., $7,923; C. S. Monroe & Son Co., $8,245; Kaps Bros., $8,364; J. A. Grimes, $9,440. Fourth St., from Offnere St., to Maddox Alley, Kelly Bros., $2,435; C. S. Monroe & Son Co., $2,529; J. A. Grimes, $2,978.

Ashland, Ohio.—Bids will be received by the Commissioners of Ashland County until 1 p. m., Sept. 8, for grading and macadamizing 1.04 miles of road in Sullivan Township. Estimated cost, $6,320. Also 1.6 miles in Sullivan Township; estimated cost, $9,547.

Dayton, Ohio.—Bids will be received by the Commissioners of Montgomery County, until 10 a. m., Sept. 1, for grading and macadamizing 1.29 miles of road in Randolph Township; estimated cost, $12,959.

+Delaware, Ohio.—Contracts for paving have been awarded as follows: Elizabeth St. and Central Ave., with wood block, to McHUGH BROS., Springfield, Ohio, at $15,171; Campbell St., with Big Four Block, LAMBERT BROS. & WIRT, Delaware, at $16,428.

Findlay, Ohio.—Bids will be received by the County Auditor until noon, Sept. 2, for constructing one mile of the A. L. Russell Road.

Logan, Ohio.—Bids will be received by the Commissioners of Hocking County, until 10 a. m., Sept. 4, for grading and constructing with gravel 1.63 miles of road in Perry Township. Estimated cost, $5,312.

Marietta, Ohio. — Bids will be received by the Commissioners of Washington County until 1 p. m., Sept. 13, for grading and paving with brick, 1.21 miles or constructing with concrete 1.57 miles of road in Marietta Township.

+Middletown, Ohio. — The contract for paving Alemeda Ave. has been awarded to BIGLER BROS., at $1.33 per sq. yd.

Millersburg, Ohio.—Bids will be received by the Commissioners of Holmes County until 1 p. m., Sept. 6, for grading and macadamizing 1.4 miles of road in Hardy and Berlin Townships; estimated cost, $9,961.

+Sebring, Ohio.—A contract for paving the road from 12th St. in Sebring, to Beloit, has been awarded to JOHN WILSON, Alliance, Ohio.

Springfield, Ohio.—Bids will be received by the Commissioners of Clark County until 10 a. m., Sept. 2, for grading and macadamizing 2.20 miles of road in Springfield Township; estimated cost, $15,255.

Wakeman, Ohio.—Bids will be received by W. C. Ferver, Clk., Bd. of Township Trustees, until 10.30 a. m., Sept. 5, for the construction and grading of roads in Wakeman Village.

Waverly, Ohio.—Bids will be received by the Commissioners of Pike County until 1 p. m., Sept. 6, for grading, macadamizing and constructing with concrete one mile of road. Estimated cost, $6,956.

+South Bend, Ind.—C. H. DE FREES, South Bend, has been awarded the contract to improve South Michigan St., between Ewing Ave. and Leeper Road, with stone macadam pavement. The improvement will cost 83 cts. per ft., or a total of $9,580.

+Hillsdale, Mich.—We are officially advised that a contract for constructing 10,500 sq. yds. of brick pavement was awarded on Aug. 21 to FARRELL BROS., at $1.80 per sq. yd. The other bidders were: H. L. Enck, $1.87; Hatch Co., $2; Kneal & Ryan, $1.88½. C. L. Herron is City Engr.

+Chicago, Ill.—Contracts for the improvement of various streets have been awarded by the Board of Local Improvements, as follows: Dearborn St., to the AMERICAN ASPHALT PAVING CO., at $6,183; Vincennes Road, CALUMET COAL & TEAMING CO., at $102,675; Wabash Ave., AMERICAN ASPHALT PAVEMENT CO., at $101,552; Belle Plain St., to AMERICAN ASPHALT PAVEMENT CO., at $7,801; West 51st St., to READY & CALLAGHAN COAL CO., at $6,999; West Harrison St., STANDARD PAVING CO., at $36,025; Lincoln Ave., RYAN CO., at $42,851; West Madison St., STANDARD PAVING CO., at $85,310; Marianna St., AMERICAN ASPHALT PAVING CO., at $14,700; Marquette St., AMERICAN ASPHALT PAVING CO., at $13,976; Mozart St., to R. F. CONWAY CO., at $18,713; Prairie St., to R. F. CONWAY CO., at $18,604; St. Lawrence St., AMERICAN ASPHALT PAVING CO., at $21,787; West 12th St., to STANDARD PAVING CO., at $15,445.

Harrisburg, Ill.—Bids will be received by the Commissioners of Highways until Sept. 2, for constructing 2½ miles of brick pavement on 4-in. concrete foundation, with concrete curb and filler. C. S. Wills is Township Clk.

Augusta, Wis.—Bids will be received by E. J. Miske, City Clk., until Sept. 6, for improving a portion of Lincoln St. requiring 1,366 lin. ft. concrete curb and gutter, 216 lin. ft. concrete retaining wall, 3,805 sq. yds. vitrified brick pavement, including excavation; 2,800 sq. ft. concrete sidewalk, four catch basins, and 255 lin. ft. 10-in. storm sewer pipe.

+Racine, Wis. — JAMES CAPE & SONS have been awarded the contract for improving Asylum Ave. at 21 cts. per sq. ft. for resurfacing and 5 cts. per sq. yd. for oiling.

+Winterset, Iowa.—The contract for constructing about 12,000 sq. yds. of pavement has been awarded to BRYANT McLAUGHLIN ASPHALT CO., at $2.09 per sq. yd. H. S. Ely is City Clk.

Dayton, Wash. — We are officially advised that a contract for laying 26,000 sq. yds. of bitulithic pavement and constructing various storm sewers, has been awarded to the PACIFIC PAVING CO., at $34,000. Wilson MrBride, Dayton, is Engr.

Spokane, Wash.—Bids will be received by the City Council until 11 a. m., Sept. 7, for grading and paving various streets. C. A. Fleming is City Clk.

+Eureka, Cal.—Contracts have been awarded as follows: For constructing seven miles of road from Slate Creek to Orleans, and three bridges, to JOHN C. GIST, at $14,500; for a 12-ft. road around the Root grade to ELSEMORE & JACOBS, at $7,890; for graveling the approach to the Eel River Bridge, to GEORGE E. HANSON, at 49 cts. per cu. yd. for Section 1; 57 cts. for Section 2, 77 cts. for Section 3. Geo. W. Cousins is County Clk. Noted Aug. 3.

Fullerton, Cal.—The citizens have voted bonds for $160,000, to be used for paving the city streets with macadam.

Hermosa Beach, Cal. — Bids will be received by E. McCoskey, City Clk., until Sept.12, for macadamizing a portion of Santa Fe and Real Aves., 2,600 ft. long and 16 ft. wide.

+P. S. VENABLE & J. E. MORRELL, Redondo Beach, Cal., have been awarded a contract at $6,000 for grading and constructing cement curbs and gutters on Santa Fe Ave.

+Lodi Cal.—A contract for paving the business streets of Lodi has been awarded to the RANSOME-CRUMMEY CO., at $35,672. The other bidders were: Federal Construction Co., $36,981; Frank B. Richie, $37,626.

Portersville, Cal. — Bids will be received until 8 p. m., Sept. 4, for paving Main St. E. F. Halbert is Clk.

San Jose, Cal.—Bids will be received by H. R. Pfister, Clk. of the Bd. of Supvrs., until 11 a. m., Sept. 5, for the improvement of Oldham, Holsclaw and the Leavesly Roads.

Santa Barbara, Cal.—Bids will be received until 10 a. m., Sept. 5, by the Bd. of Supervisors, for the construction of road in Permanent Road Division of Goleta in Santa Barbara County. C. A. Hunt is County Clk.

Santa Barbara, Cal.—Bids will be received by Alfred Davis, City Clk., until Sept. 7, for improving portions of Victoria, Anacapa and Santa Barbara Sts., by paving and constructing concrete curbs and gutters, and five steel top gutters.

Santa Monica, Cal.—Bids will be received by G. A. Murray, City Clk., until Sept. 4, for grading, paving and constructing cement gutters in E St.

MANUFACTURING PLANTS.

(*+Denotes a contract awarded.*)

+Belmont, Mass.—The contract for the factory building for A. W. Elson & Co., 146 Oliver St., Boston, has been awarded to WILLIAM H. ILIFFE, Watertown. To be of brick, one story, 53 × 38 ft. Jos. E. Chandler, 31 Beacon St., Boston, is the Arch.

Boston, Mass.—A factory building, 1-story, 24 × 52, 24 × 27 ft., will be erected by A. D. Little, Inc. The cost is $12,000. Plans by Kilham & Hopkins, 9 Park St.

Brockton, Mass.—The Day-Emerson Shoe Co. has been formed for the manufacture of shoes. Capital, $50,000. Perry E. Day is Pres.

+Holyoke, Mass.—The contract for the addition and alterations to the factory of the Woronoco Paper Co. at Woronoco has been awarded to CASPER RANGER. G. HAARMAN & CO. will have the contract for the iron work, and the cast-iron work will be done by the SPRINGFIELD FOUNDRY CO.

+Peabody, Mass.—The contract for the factory to be built for the A. C. Lawrence Leather Co., 95 South St., Boston, has been awarded to H. WALES LINES CO., of Meriden, Conn. To be of reinforced concrete, five stories, 150 × 50 ft., to cost $200,000. A. E Bumch, 34 North Market St., Boston, is the Arch.

Springfield, Mass.—GAGNIER & ANGIERS, general contractors for the laundry building and stable to be erected on Worthington Court for the Superior Laundry Co., John E. McCarthy, Prop., have awarded sub-contracts as follows: Excavating and concrete work, the RICE, VALENTINE CO.; mason work, MITCHELL BARBIEU; Iron work, STEWART N. KING; plumbing, GEORGE H. SMITH & CO.; roofing, H. J. PRATT & CO. The laundry building will be of brick, two stories high, 101 × 150 ft., and the stable of concrete, one story high, 20 × 64 ft.

Somerville, Mass.—An ice manufacturing plant is to be erected on Mystic St. To be of brick and terra cotta, two stories, 137 × 100 ft., to cost $130,000. Funk & Wilcox, 15 Beacon St., are the Archs.

Worcester, Mass.—Bids will be asked for soon, for a 2-story addition to the bottling department of Bowler Bros. brewery. John R. Kingston, Knowles Bldg., is the Arch.

North Kingston, R. I.—The Wickford Milling & Supply Co. has been formed for the purpose of milling. Capital, $30,000. Francis C. Dixon, of Stonington, Conn., is Pres.

Niantic, R. I.—Contractors are now figuring on plans of Richard P. Jenks, Banigan Bldg., Providence, R. I., for a building for the woolen department at the plant of the Bradford Dyers' Association. Plans are also being prepared for a building for the silk dyeing department.

Bridgeport, Conn.—From plans drawn by Arthur S. Meloy, contracts have been awarded for the proposed addition to the plant of the Sprague Motor Co. on Water St. To MICHAEL NOONAN for the mason work; C. A. BJORKLUND, carpenter work; BRIDGEPORT FOUNDRY & MACHINE CO., steel work. Noted July 13.

New Haven, Conn.—Plans have been prepared by Philip Sellers, 756 Chapel St., for a building at the plant of the New Haven Machine Screw Co. It will be two stories high, 40 × 125 ft., with a wing for the toilet rooms. Bids will be received for reinforced-concrete construction and steel sash, and also for slow-burning mill construction.

South Manchester, Conn.—The H. WALES LINES CO., Meriden, Conn., has been awarded the contract for an addition to the paper box factory at the Cheney Bros. Silk Mills. The building will be of wood, 40 × 100 ft., and three storie high.

Waterbury, Conn.—Plans have been completed by E. E. Benedict, Arch., 51 Leavenworth St., Waterbury, for a building at the plant of the Shoe Hardware Co. on Brown St. The new part will be 86 × 96 ft., five stories high, of brick, mill construction with bluestone trim and pressed brick front. A freight elevator will be required and also a steam heating plant.

Buffalo, N. Y.—The Zahm Mfg. Co., recently incorporated here to manufacture filtration and sterilization machinery has purchased site and will erect factory for which plans are being prepared. C. A. Strangmann is Pres., 988 Main St.

Jamestown, N. Y.—The Jamestown Wood Finishing Co., incorporated a short time since, to manufacture paints, fillers and stains, has completed plans for a 2-story factory, 36 × 100 ft., to be erected at Blackstone and Driving Park Aves. and the Erie R. R., East Jamestown. John Dahlquist, Vice-Pres. and Secy., Jamestown.

New York, N. Y.—Andrew P. Smith, 225 Prospect Park West, will erect a $20,000 carriage factory. Plans by Benjamin F. Hudson, 319 Ninth St.

Plans are being prepared by J. C. Wandell, 502 East Ninth St., for the erection of a broom factory to cost $20,000. The owner is F. M. Bookhop.

Montgomery, N. Y.—Security Reliner Co. will erect a factory here for manufacturing automobile tires. Elmer I. Emerson, cashier of the First National Bank, is Pres.

Utica, N. Y.—The Durr Packing Co. will build a 2-story addition to its packing plant on Schuyler St., from plans of Archs. Agne, Jenison & Rushmere, Arcade Bldg.

Altoona, Pa.—It is reported that the Pennsylvania R. R. Co. is considering the construction of a roundhouse and machine shop.

Philadelphia, Pa.—Laird, Shober & Co., 19th and Buttonwood Sts., will erect a 5-story factory. Plans are being prepared by Ballinger & Perrot, 1211 Arch St. The cost is about $60,000.

Adam & Stephen Berke will erect a factory building to cost $15,000. Plans have been prepared by Peuckert & Wunder, 310 Chestnut St.

Pittsburgh, Pa.—The Schenley Estate will erect a factory, three stories, 100 × 180 ft. Plans by F. J. Osterling, Commonwealth Bldg. The cost is $40,000. The general contract is held by W. F. Trimble & Sons, 1719 Greenwood Ave.

Spring Valley, Pa.—Plans have been completed by Edward L. Scholl, 521 Court St., Reading, Pa., for the construction of a 1-story, 50 × 200-ft. factory for the Prospect Dye Works, 1120 Moss St. The cost is $12,000.

Maryville, Tenn.—Press reports state that the Maryville Hosiery Mills, recently destroyed by fire, will be rebuilt. R. B. Oliver is Pres. The cost is about $40,000.

Fredericksburg City, Va.—Young-Schoonover Co. will build an additional planing mill to double its capacity. Construction will begin soon.

Lexington, Ky.—An ice plant will be erected by the Kentucky Traction & Terminal Co., Lexington, Ky., in connection with the power-house it is preparing to erect at a cost of about $500,000. F. W. Bacon is Vice-Pres.

Cincinnati, Ohio.—L. A. Strobel Co., manufacturers of moldings and picture frames, will build 5-story factory.

+Columbus, Ohio.—The contract for the erection of a number of concrete buildings for the Canton Fertilizer Co. at Canton, Ohio, has been awarded to E. ELFORD, Columbus, Ohio.

Columbus, Ohio.—Plans have been completed by Frank L. Packard, Hayden Bldg., for the construction of a shoe factory, 4-story, 62 × 187 ft., for the Riley Shoe Mfg. Co. The cost is $50,000.

Cleveland, Ohio.—The C., C., C. & St. L. R. R., Cincinnati, has had private plans prepared for the construction of an auction warehouse. The cost is $30,000.

Dayton, Ohio.—A 2-story paper mill will be erected by the Peerless Paper Co. The contract is held by the LARKIN BROS., 124 South Ludow St. Plans have been prepared by Albert Pretzingen, 1125 Reibold Bldg. The cost is $50,000.

A 6-story factory building will be erected by the Buckeye Iron & Brass Works, 326 Third St. Plans have been completed by Schenk & Williams, 519 Arcade Bldg. The cost is $130,000.

East Toledo, Ohio.—The McNaul Boiler Mfg. Co. will erect an addition to their boiler works in East Toledo. The plant will be 70 × 240 ft., and of brick and steel construction. The cost is $35,000.

Laporte, Ind.—The New Process Light & Heat Co. will build and equip a large factory in Laporte. The company is capitalized at $50,000.

Warren, Ind.—The Granger Electric & Manufacturing Co. has been incorporated with $50,000 capital stock. The company proposes to build and equip a large factory to do an extensive manufacturing business. Francis Granger, R. L. Tobin and F. Canady are Dir.

Alma, Mich.—E. M. Wood, Alma, Mich., is preparing plans for a 1-story factory, 246 × 131 ft., for Nelson Bros. Co., Alma, Mich., to be located in Saginew, Mich. Building will be fireproof. Cost, $35,000.

Detroit, Mich.—Ford Motor Car Co., Detroit, Mich., have awarded the steel contract for their $1,000,000 plant to A. BOLTERS, 118 North La Salle St., Chicago, Ill.

Anthony & Porabaut, 1216 Cass Ave., have awarded the general contract for a 1-story factory, 50 × 150 ft., to A. J. STEWART, 34 Farnsworth Ave.

Van Leyen & Schilling, 1117 Union Trust Bldg., are preparing plans for a 1-story factory addition, 30 × 124 ft., for the Detroit Bath Tub & Brass Mfg. Co. J. H. Brady, Mgr., 73 Baltimore Ave.

The Newton Chinels Co., 228 Seyburn Ave., Detroit, are having plans prepared for a 2-story and basement factory, 38 × 90 ft. Owners will purchase materials and sub-let all contracts. Cost, $25,000.

✚Kalamazoo, Mich.—D. J. Albertson, 305 West Main St., Kalamazoo, has awarded the general contract for the 2-story and basement paper mill for the Monarch Paper Co. to H. L. VAN DER HORST, 601 South Burdick St. Cost, $80,000.

✚Chicago, Ill.—The Cleaners & Dyers Association has awarded the masonry contract to H. B. MORELAND & CO., 105 North Clark St., for a 2-story factory building, 50 × 125 ft., costing $25,000. Plans by Whitney C. Stevens, 64 West Randolph St.

✚The contract has been awarded to MORRICE & BARRON, 19 North Lasalle St., for the construction of a factory building for the Heller & Co., 450 South Jefferson Ave. The cost is $75,000.

Plans have been completed by David Saul Klaft, 127 North Dearborn St., for the construction of a 2-story, 50 × 183 ft. factory, stable and flat for Swidler & Bernstein. The cost is $30,000.

Joliet, Ill.—The Western United Gas & Electric Co. will erect a by-products building, 2-story, 58.9 × 259.6 ft. Plan by C. W. Webster.

Streator, Ill.—Charles Finlen will probably erect a business building containing a blacksmith shop and a paint shop. The cost is $10,000.

Milwaukee, Wis.—The Keystone Glue Co., of Williamsport, Pa., has purchased 46 acres of land at So. Milwaukee on which will be erected a $300,000 glue plant. The company intends moving its headquarters to the Milwaukee suburb. The excavation work will start soon. The land was sold to the company by Fred W. Rogers for approximately $12,000.

Minneapolis, Minn.—Plans are being prepared by the Minneapolis Sash & Door Co., 962 Central Ave., for a factory building, 113 ft. on Central Ave. by 113 ft. deep. The addition is to be six stories with basement; is to cost $90,000. The tract, which faces Central Ave., extends back 363 ft. to Harrison St. The building is to be of substantial mill construction.

Jonesboro, Ark.—The Arkansas Peanut Growers' Association have organized a peanut hulling company, to be known as the Arkansas Peanut Growers' Association Peanut Hulling Co. The plant will be erected soon.

Port Bolivar, Tex.—E. P. Ripley, Pres. of Atchison, Topeka & Santa Fe R. R., is reported to be at the head of a syndicate that will erect a rolling mill and steel plant at this place to cost $1,000,000. A site of 100 acres for the proposed plant has been purchased.

Houston, Tex.—The Arkansas Fertilizer Co., of Little Rock, will erect a fertilizer plant here. F. S. Williams is Gen. Mgr.

New Braunfels, Tex.—The corn shelling plant of Harry Landa, which was recently destroyed by fire, will be reconstructed.

San Antonio, Tex.—Max Winfield, of St. Louis, Mo., has under consideration the establishment of a canning factory here to cost about $50,000.

Texas City, Tex.—The Pierce-Fordyce Oil association, which purchased the oil refinery here recently, is having plans prepared, according to official announcement, for the trebling of the capacity of the plant. The improvement will cost about $750,000. Modern machinery and equipment that are necessary for oil refineries will be installed. The original plant cost about $500,000, and with the improvements that are to be added it will represent an outlay of approximately $1,250,000. tI is also planned by the Pierce-Fordyce Oil Association, which is headed by H. Clay Pierce, of St. Louis, to lay a system of pipe lines from the Texas fields to the refinery here.

Wichita Falls, Tex.—The Chanute Window Glass Co. will erect a large glass factory here.

Holene, N. Mex.—C. E. Foster and J. D. Burkhart, of Holene, will erect a factory for the manufacture of porcelain ware. They own a large deposit of kaolin 25 miles east of Tucumcari, N. Mex.

Flagstaff, Ariz.—A. C. Martin, Arch., Higgins Bldg., Los Angeles, Cal., is preparing plans for a 2-story, 12-room stone dwelling and two stone slaugter houses, 20 × 40 ft., and 30 × 50 ft., to be constructed here for Babbitt Bros.

Riverside, Cal.—The CRESMER MANUFACTURING CO. was awarded contract at $9,717 for constructing machine shop building at the Indian School.

San Diego, Cal.—The Panama Brewing Co. has been organized here with a capital stock of $350,000 for the purpose of erecting a brewery. A site for the plant has been secured.

Ft. William, Ont.—The contract has been awarded to the Elliott Bros., Minneapolis, Minn., for the construction of a storage plant for the Canadian Swift Co. at Ft. William.

St. Catherines, Ont.—A basket factory will be erected by Merrit Bros., of Woodburn, Ont.

Aurora, Ont.—The Positive Clutch & Pulley Works, Toronto, will erect a plant here. Plans for same have been completed.

Brantford, Ont.—The Watrous Engine Works Co. has completed plans for an addition, which it will make to its plant at an estimated cost of $60,000.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

Fire Apparatus.—Boston, Mass.—It is recommended by the Fire Commissioner that $166,000 be expended for the purchase of motor apparatus. This would include 26 hose wagons, six ladder trucks, and 15 runabouts, all in place of horse-drawn apparatus. A commission has been appointed to report definitely on the special needs of the department. Charles D. Daly is Fire Comr.

✚Dredging.—Newport, R. I.—The J. S. PACKARD DREDGING CO., of Providence, R. I., has been awarded the contract for dredging in Pawtucket River, R. I., at $29,103. List of bidders noted on July 27.

Pier.—Providence, R. I.—The State Harbor Improvement Commission will probably ask for bids about Oct. 1 for the construction of a new pier at the foot of Allen Ave. William D. Bulloch is Engr. Henry M. Barry is Secy.

Fire Station.—Dunkirk, N. Y.—Bids will soon be asked for the construction of a fire station here according to the plans and specifications of H. B. Beebe, Arch., Fredonia, N. Y.

Borings.—New York, N. Y.—Bids will be received by the Public Service Commission, 154 Nassau St., New York, until noon, Sept. 12, for making borings along the lines of the proposed rapid transit railroads at the following points: In Manhattan, under Seventh Ave. from 14th to 59th Sts.; in 59th St., from Seventh to Second Aves.; in 60th St., from Fifth to Second Aves.; in Broadway, from 14th to 42nd Sts.; in Brooklyn, in East 98th St. and Livonia Ave.; in Nostrand Ave.; and in Stuyvesant and Utica Aves.; in Manhattan and Brooklyn, under river crossings, from Old Slip, Manhattan, under the East River to Pineapple St., Brooklyn; from Whitehall St., Manhattan, under the East River to Montague St., Brooklyn; from the Battery, Manhattan, under the East River to Atlantic Ave., Brooklyn. Forms of contract, specifications, maps and plans may be consulted by intending bidders at the office of the Commissioner, 154 Nassau St.

***Dikes.**—New York, N. Y.—Bids for rebuilding and repairing dikes in Rondout Harbor, N. Y., will be received until noon, Sept. 18, by Col. W. M. Black, Corps Engrs., U. S. A., New York.

Repairing Bath, etc.—New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Sept. 11, for furnishing the necessary labor and materials for repairing Manhattan floating bath No. 2, now lying at the foot of 22d St., Brooklyn, and for driving piles at Battery Berth.

Improving Playground.—New York, N. Y.—Bids were received on Aug. 17 by the Park Board, Dept. of Parks, as follows for improving the playground under the Queensboro Bridge, west of Sutton Pl., between 59th and 60th Sts.: Charles Meads & Co., 165 Broadway, New York, $23,509; Atlantic Construction Co., 434 East 91st St., New York, $30,900; Richard Carvil Co., 401 West 59th St., New York, $32,830; Charles L. Doran Construction Co., 1015 Braeton Ave., New York, $28,643; Dunbar Construction Co., 444 East 68th St., New York, $29,000; McHarg-Barton Co., 165 Broadway, New York, $30,580; Pecora Granolithic Paving Co., 447 East 116th St., New York, $29,665.

Building Work.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Sept. 7, for all labor and materials required for repairs and for the erection and completion of addition to the Litchfield Mansion, located in Prospect Park, Boro. of Brooklyn, together with all the work incidental thereto.

Railings.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Sept. 7, for furnishing and delivering material for railings in and around small parks in the Borough of The Bronx, City of New York.

Dredging.—New York, N. Y.—Bids were received as follows on Aug. 26 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging and removal of part of Cob Dock, Navy Yard, New York: R. G. Packard Co., 130 Pearl St., New York, 27 4/10 cts. per cu. yd.; Morris & Cummings Dredging Co., 17 State St., New York, 58 4/10 cts.

Wall.—Trenton, N. J. — The State House Commission has adopted the plans of Olmstead Bros., Archs., as approved by the Park Board, for the river wall to protect the City's and State's property along the river.

Elevator Plant.—Washington, D. C.—The time for opening bids for an electric elevator plant in the U. S. postoffice building at Washington has been extended from Sept. 15 to 3 p. m., Oct. 10. Bids will be received by James Knox Taylor, Superv. Arch, Treasury Dept., Washington.

***Mail Handling Apparatus.**—Washington, D. C.—The time for opening the bids for the mechanical system of mail handling apparatus in the U. S. postoffice building at Washington has been extended from Sept. 15 to 3 p. m. Oct. 10. Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington.

Mechanical Equipment.—Washington, D. C.—The time for opening bids for the mechanical equipment (excepting elevators and mail handling apparatus) for the U. S. postoffice at Washington, has been extended from Sept. 15 to 3 p. m., Oct. 10. Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington.

✚Fountain.—Washington, D. C.—The Columbus Memorial Commission has awarded the contract for stone work for foundations, concrete piles, etc., and for plumbing and sewers for the Columbus Memorial Fountain, to J. C. ROBINSON & SON, of New York, at $21,854, for use of granite alone, exclusive of carvings.

Riprap. — Washington, D. C. — Bids will be received until noon, Sept. 15, by Lt.-Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for furnishing and placing riprap in the training dike of the Potomac River, Virginia Channel, about Highway Bridge.

Retaining Wall.—Washington, D. C.—Bids will be received until 11 a. m., Sept. 16, by the Bureau of Yards and Docks, Navy Dept., Washington, for a retaining wall at the U. S. Naval Hospital, Washington.

Steel Rail, Brass, Etc.—Washington, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Washington, until Sept. 12 for the following supplies: San Diego, Cal., Schedule 3826, miscellaneous steel rail, etc.; six dump cars; Mare Island, Cal., Schedule 3829, 2,100 lbs. sheet brass; 18,000 lbs. brass pipe; miscellaneous composition valves. Puget Sound, Wash., Schedule 3826, 1,000 ft. sewer pipe; 7,000 ft. w. i. or steel pipe. Schedule 3829, 750 lbs. copper tubing. Brooklyn, N. Y., and Newport News, Va., Schedule 3854, miscellaneous electrical equipments; Washington, D. C., Schedule 3852, furnishing and installing turntable for railroads; Schedule 3853, 500-ton power press. Brooklyn, N. Y., Schedule 3855, a winch and capstan. Applications for proposals should designate the schedule desired by number.

***Dredging.**—Washington, D. C.—Bids will be received until noon, Sept. 27, by Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for dredging in Upper Macbodoc Creek, Va.

✚Landing.—Norfolk, Va.—The Landing-Board has awarded the contract to LOUIS LAWSON, of Norfolk, for constructing the Hague landing.

Seawall.—Norfolk, Va.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Sept. 30, for a seawall at the U. S. Navy Yard, Norfolk.

Track.—Norfolk, Va.—Bids will be received until 11 a. m., Sept. 30, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for renewal of 40-ton locomotive crane track at the Navy Yard, Norfolk.

Dredge.—Wheeling, W. Va.—Bids are are being asked until 11 a. m., Sept. 22, by Maj. F. W. Alstaetter, Corps Engrs., U. S. A., Wheeling, for a steel hull dipper dredge.

✚Dredge.—Charleston, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded the contract for the construction of an electrically-driven suction dredge for the Charleston navy yard to ALEX MILLER & BRO., of Jersey City, N. J., at $34,900. Bids were opened on Aug. 12.

✚Concrete Platfrom.—Pelzer, S. C.—The Pelzer Mfg. Co., of Pelzer, has awarded the contract for constructing a reinforced-concrete platform to JAMISON & MORRIS, of Greenville, S. C. The platform will be 200 ft. long by 100 ft. wide.

✚Dredging.—Tampa, Fla.—The contract has been awarded to J. C. TITZWELL, of Savannah, Ga., for dredging a channel of about 5,000,000 cu. yds. from the head of the estuary in Ybor City, along which the city is to build docks, also the "loop" channel through Sparkman Bay east of Seddon Island to the main channel at Hooker's Point, to be 24 ft. deep and 300 ft. wide, at $327,000.

***Dredging.**—St. Augustine, Fla.—Bids will be received until noon, Sept. 20, by the Florida Coast Line Canal & Transportation Co. for completing the canal from Matanzas Inlet to Halifax River, in the state of Florida, a distance of about 20 miles, requiring the excavation of about 1,200,000 cu. yds. of earth. For details see advertisements in this issue.

Filling.—Montgomery, Ala. — Bids were received as follows on Aug. 24 by Lt.-Col. G. D. Fitch, Corps Engrs., U. S. A., Montgomery, for filling at Fort Pickens, Fla.: Home Dredging Co., Mobile, Ala., 22⅝ cts., per cu. yd.; North American Dredging Co., Galveston, Tex., 20 9/10 cts.; Southern Dredging Co., Mobile, 23 cts.; Hillsboro Dredging Co., Tampa, Fla., 21 4/10 cts.

Wall. — Bay St. Louis, Miss. — The Mayor and Aldermen have decided to issue bonds for $500,000 for a wall for protecting streets from overflow, cavingbanks, etc., and also providing for the purchase of a site in the Fourth Ward for a school building.

✚Levee.—Vicksburg, Miss.—Bids were received on Aug. 18 by the Mississippi River Commission, Third District, Vicksburg, for about 960,000 cu. yds. of levee. Contracts, it is reported, have been awarded as follows: For Lower **Yazoo Levee District,** 360,000 cu. yds., to **CLARK & HELGASON** BROS., of Vicks**burg, at 16 cts. per** cu. yd., at $57,600; **for Upper Tensas Levee** District, about **600,000 cu. yds., to** ROACH & STAN**SELL, of Memphis,** Tenn., at 13.2 cts. **per cu. yd., or $79,200.**

Tugboats.—Vicksburg, Miss.—Bids for furnishing and delivering two steel hull screw tugboats were received by Capt. J. A. Woodruff, Corps Engrs., U. S. A., Vicksburg, on Aug. 15. The boats are to have the following approximate dimensions: Length on water line, 75 ft.; beam on water line, 16 ft.; draft fully coaled, [illegible] ft. The tugs are to be delivered at Vicksburg. The bids follow: (a) Names of tugboats offered; (b) prices—Samuel Holmes, Morris Bldg., 66 and 68 Broad St., New York, (a) Edmund Moran, (b) $30,000; Lizzie D, $33,500; J. S. W. Holton, $10,500; Walter Mattick, $20,000; Columbia, $17,000 and J. J. Logan, [illegible] respectively; Whiteman Bros., Plaquemine, La., (a) White Water, (b) $15,000; T. H. Franklin, 80 Broad St., New York, (a) Edmund Moran, (b) $35,000; Walter Mattick, $20,000; Erastus C. Knight, $14,000; James J. Logan, (price later); Bisso Towboat Co., New Orleans, La., (a) Boaz, (b) $10,000; [illegible], $42,000; Robert Cothell, Baton Rouge, La., (a) Sydney C., (b) $9,900; The Monongahela River Consolidated Coal & Coke Co., 8 Market St., Pittsburg, Pa., (a) Vanguard (b) $17,000; Maud Wilmot, $15,000; H. Konitzky, Station E, Baltimore, Md., (a) J. S. W. Holton, (b) $15,000.

Dredging.—Donaldsonville, La.—Bids will be received until Sept. 19 by the Mississippi and Lafourche Drainage District for dredging Bayou Verret, the contractor to be allowed the use of dredge-boat and outfit.

✚Levee.—New Orleans, La.—The contract has been awarded to H. REYNOLDS by the Orleans Levee Board for building a levee from Montegut to Louisa Sts., at 57.6 cts. per cu. yd. The work will require the placing of 55,000 cu. yds. of earth.

✚Levee Work.—New Orleans, La.—Bids were received by the State, at the office of the Board of State Engineers, Rooms 213-215 New Orleans Court Bldg., New Orleans, on Aug. 21, for the construction of the following levee work on the Mississippi River, in Louisiana: In the Fifth Louisiana Levee District: (a) Delta to Martin Levee, Madison Parish, raising and enlarging; contents, about 105,000 cu. yds.; (b) Martin Levee, Madison Parish, raising and enlarging, about 43,000 cu. yds.; (c) Biggs Levee, Madison Parish, raising and enlarging, about [illegible] cu. yds.; (d) Reid Levee, Madison Parish, raising and enlarging, about [illegible] cu. yds.; (e) Hodges Levee, Madison Parish, raising and enlarging, about 55,000 cu. yds.; (f) Diamond Island Levee, Madison Parish, enlarging, about 90,000 cu. yds.; (g) Kempe Levee, Tensas Parish, raising and enlarging, about 40,000 cu. yds. In the Lafourche Levee District: (a) Parish line to Belle Chasse Levee, Plaquemines Parish, right bank, raising and enlarging, contents, about 100,000 cu. yds.; in the Grand Prairie Levee District, (a) Church to Pinaud Levee, Plaquemines Parish, left bank, raising and enlarging and revetment; earthwork, about 25,000 cu. yds.; length of revetment, about 2,500 ft; (b) Waltzer Levee, Plaquemines Parish, left bank, new levee, about 25,000 cu. yds.; (c) Point Pleasant Levee, Plaquemines Parish, left bank, enlargement and revetment, earthwork, about 10,000 cu. yds.; length of revetment, about 7,500 ft. Contracts have been awarded as follows:

For work in Fifth Louisiana Levee District: (a) to LINNAN & BOBBITT, of Baton Rouge, La., at 17.69 cts. per cu. yd.; (b) to same, at 29.99 cts.; (c) all bids rejected, work to be relet Sept. 4; (d) all bids rejected, relet Sept. 4; (e) to CLARK & HARRIS, of Natchez, Miss., at 23.4 cts.; (f) to DONOVAN & DALEY, of Lake Providence, La., at 28 cts.; (g) all bids rejected, relet Sept. 4.

For work in the Lafourche District: (a) to HERCULES CO., LTD., 1007 Hibernia Bldg., New Orleans, La., at 20.7 cts. per cu. yd.

For work in the Grand Prairie Levee District: (a) to SCHAYOT & MEIERS, of Point a la Hache, La., at 17.85 cts. per cu. yd.; (b) to M. CULLEN, of Fort St., Phillip, La., at 13.9 cts.; (c) to P. H. LYONS, of Nairn, La., at 89 cts. per lin. ft. of revetment.

All bids for the Lucca Levees, Upper and Lower were rejected on Aug. 21 by the Board of State Engineers. New Bids are asked until Sept. 4. The only bidders were George R. Lacy & Co. and Lowrence Bros. & Co. G. W. Lawes is Secy. Bd. Frank M. Kerr is Ch. State Engr.

Levee.—Columbus, Ohio.—Bids will be received until Sept. 6 by H. S. Holton, Dir. Pub. Ser., for constructing a levee on the east side of the Scioto River, south of the Noler St. Bridge.

Asphalt. — Cincinnati, Ohio. — Bids will be received by the Director of Public Service, City Hall, until noon, Sept. 6, for furnishing 100 tons of refined asphalt for the use of the Street and Sewer Repair Department, to be delivered municipal asphalt plant switch, Cincinnati, in carload lots, as called for according to specifications on file in the office. Specifications and blank proposals can be obtained at the office of the Superintendent of the Street and Sewer Repair Department. John J. Wenner is Clk.

(Continued on Page 108.)

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
9- 1	*Dredging, etc., Minneapolis, Minn. ....(P. & S.)	8-10
9- 1	High school, South Bend, Ind. (P.&S.)	7-27
9- 2	Grading, Newport, R. I.(S.)	8-10
9-16	Retaining wall, Washington, D. C. ....(S)	8-31
9-23	Structural steel, Cuba...(S)	8-31
9-30	Sea wall, Norfolk, Va....(S)	8-31
9-30	Track, Norfolk, Va......(S)	8-31

Light, Heat and Power Plants.

Bids close.		Noted in issue of
9- 1	Boiler house, Cadillac, Mich.	8-31
9- 4	Moving machinery, Jacksonville, Fla.	8-17
9- 5	Maintenance of gas and gasoline lamps, St. Paul, Minn.	8-17
9- 5	Elecric light and water plant Honea Path, S. C.	8-24
9- 5	Electric light plant, Clarksdale, Miss.	8-24
9- 5	Lighting fixtures, wiring, etc., New York	8-31
9- 5	Pumping station and electric light plan, Fargo, N. Dak.	8-31
9- 5	Electrical supplies, New York, N. Y.	8-31
9- 5	Repairing electrical equipment, New York.	8-31
9- 6	Lighting fixtures, Brookings, S. Dak.	8-24
9- 7	Street light equipment, St. Paul, Minn.	8-17
9- 7	Induction motors, Council Bluffs, Iowa	8-31
9-11	Electrical supplies, Winnipeg, Man.	8-31
9-11	Electrical eguipment, Cleveland, Ohio	8-31
9-15	Electric railway, Portland, Ind.	8-31
9-15	Electr[illegible]ipment, Sedro-Woolley, Wash.	8-31
9-25	**Electrical supplies, Brazil (Foreign)**	**7-27**
9-31	Hydro-electric power plant, Riverdale, Utah	8-24
10-11	Power house, Colonial Beach, Va.	8-31
1912	**Power generating and pumping plants, Australia (Foreign).**	**6-15**

Bridges.

Bids close.		Noted in issue of
9- 1	**Bridges, Siam (Foreign)**	**6-29**
9- 1	Bridges, Lamarque, Tex.	8-24
9- 1	Bridge, Renovo, Pa.	8-31
9- 2	Bridge, Indiana, Pa.	8-31
9- 2	Bridge, New Athens, Ill.	8-24
9- 2	Bridge, Youngstown, Ohio	8-10
9- 4	Bridge, Grenada, Miss.	8-17
9- 4	Bridge, Wanilla, Miss.	8-24
9- 4	Bridges, Harvard, Ill.	8-31
9- 5	Bridge, San Jose, Cal.	8-31
9- 5	Bridge, Santa Barbara, Cal.	8-31
9- 5	Bridge, etc., North Braddock, Pa.	8-31
9- 5	Bridges, Kingston, N. Y.	8-24
9- 5	Bridge, Colusa, Cal.	8-24
9- 6	Bridges, etc., Wentworth, N. C.	8-24
9- 6	Bridge, etc., Salinas, Cal.	8-24
9- 6	***Bridge, Tampa, Fla.**	**7-13**
9- 6	Bridge, Akron, Ohio	8-31
9- 6	Bridge, Hillsville, Va.	8-31
9- 6	Bridges, Appomattox, Va.	8-31
9- 7	Bridges, Muncie, Ind.	8-17
9- 7	Bridge, etc., Laporte, Ind.	8-24
9- 8	Bridges, etc., Cincinnati, O.	8-24
9- 8	Bridge, Visalia, Cal.	8-31
9- 9	Bridge, Quincy, Ill.	8-17
9-11	Bridge, Kansas City, Kan.	8-24
9-11	*Bridges, Angleton, Tex.	8-24
9-11	Bridge widening, Port Chester, N. Y.	8-24
9-11	Bridges, Ventura, Cal.	8-31
9-11	Superstructures, Lancaster, Ohio	8-31
9-12	Bridge, Lancaster, Pa.	8-31
9-12	Bridge, Pocatello, Idaho	8-31
9-12	Bridge, Southampton, N. Y.	8-31
9-14	*Bridge, Reading, Pa.	8-17
9-25	*Viaduct, Fitchburg, Mass.	8-31

Buildings.

Bids close.		Noted in issue of
9- 2	Court-house, Indianapolis, Ind.	8-10
9- 2	Bank, Covington, La.	8-24
9- 2	Library, Janesville, Minn.	8-24
9- 2	Church, Athens, Wis.	8-31
9- 4	Building, Madison, Wis.	8-31
9- 5	Building, Ligonier, Ind.	8-31
9- 5	Hotel bldg., Albany, Ga.	8-10
9- 5	*U. S. post office, Gadsden, Ala.	8- 3
9- 5	Library building, Cleveland, Ohio	8-17
9- 5	Armory, Clyde, Ohio	8-24
9- 5	Library, Avondale, Ohio	8-24
9- 5	Building, Weyburn, Sask.	8-24
9- 6	Home, Jamesburg, N. J.	8-24
9- 6	Building, Pittsburg, Pa.	8-24
9- 6	Public building, Lloydminster, Sask.	8-31
9- 7	U. S. post-office, Ensley, Ala.	8-10
9- 8	U. S. post-office, Pontiac, Ill.	8-10
9- 8	School, Somerville, Mass.	8-31
9-11	Building, New Orleans, La.	8-31
9-11	Church building, Cedar Rapids, Iowa	8-17
9-11	Schools, New York	8-31
9-12	U. S. post-office, Athol, Mass.	8-17
9-14	*U. S. post-office and court-house, Grand Rapids, Mich.	8-24
9-14	Sanitarium, Elizabeth, N. J.	8-24
9-15	U. S. post-office, Pendleton, Ore.	8-24
9-15	U. S. post-office, Washington, D. C.	8-10
9-15	School, Hot Springs, Ark.	8-10
9-15	Church, Stamford, Conn.	8-10
9-18	*School, Navesink, N. J.	8-31
9-20	Church, Zanesville, Ohio	8-31
10- 3	*Filtration plant, Montreal, Que.	8-10
10-10	U. S. post-office, Washington, D. C.	8-31

Water-Works.

Bids close.		Noted in issue of
9- 1	Pipe, Newbern, N. C.	8-24
9- 1	Water supply, Norfolk, Va.	8-24
9- 1	***Water-works material, Fort Worth, Tex.**	**8- 3**
9- 1	**Well, Osage, Iowa**	
9- 1	**Canal extension, etc., Huntley, Mont.**	**8- 3**
9- 1	**Water-works, Honea Path, S. C.**	**8-10**
9- 1	***Pumping engines, Boston, Mass.**	**8-17**
9- 1	Reservoir, Cleveland, Tenn.	8-31
9- 1	Water pipe, etc., Philadelphia, Pa.	8-31
9- 2	Pumping sta. work, Sioux City, Iowa	8-31
9- 2	Pipe laying, etc., Sparta, Wis.	8-24
9- 2	Water pipe, Crawford, Neb.	8-24
9- 4	Water pipe, Homestead, Pa.	8-24
9- 4	Water supply, Manhattan, Mont.	8-17
9- 4	**Tower, Fresno, Cal.**	**8-17**
9- 4	***Water-works, Dorris, Cal.**	**8-17**
9- 4	Meter box tops, Jacksonville, Fla.	8-31
9- 5	*Pumping station, Fargo, N. Dak.	8-31
9- 5	Water-works, Inwood, Iowa	8-31
9- 5	Wier, Honor, Mich.	8-31
9- 5	Pipe, Toronto, Ont.	8-31
9- 5	Pipe, San Jose, Cal.	8-31
9- 5	Dam, etc., Dauphin, Man.	8-31
9- 5	**Water extensions, Clarksdale, Miss.**	**8-17**
9- 5	**Fire mains, etc., Rush City, Minn.**	**8-17**
9- 5	***Pumps, Muskogee, Okla.**	**8-17**
9- 5	Water impvt., Muskegon, Mich.	8- 4
9- 5	Waterpipe, West Milwaukee, Wis.	8-24
9- 5	*Purifying plant, Muskogee, Okla.	8-24
9- 5	Water-works, Burden, Kan.	8-24
9- 5	Water pipe, Winnipeg, Man.	8-24
9- 6	Extension of mains, Decorah, Iowa	8-24
9- 6	Water main, Omaha, Neb.	8-24
9- 6	Water pipe, Omaha, Neb.	8-31
9- 7	*W.-wks. material, Chillicothe, Tex.	8-31
9- 7	*Pump, Oak Harbor, Ohio	8-31
9- 7	Reservoirs, Council Bluffs, Iowa	8-31
9- 7	Softening plant, Sawtelle, Cal.	8-24
9- 7	Pumping engine, Council Bluffs, Iowa	8-24
9- 8	Water mains, etc., New York	8-31
9- 8	Filter equip., Minneapolis, Minn.	8-31
9- 8	Valves, etc., Winnipeg, Man	8-31
9- 8	Water-works, Malmo, Neb.	8-31
9-11	Water extension, Belle Plaine, Iowa	8-31
9-11	Water mains, International Falls, Minn.	8-31
9-11	Tower and tank, Vermillion, S. Dak	8-31
9-11	Water system, Dunseith, N. Dak	8-31
9-12	Water-works, Henry, S. Dak	8-31
9-12	*Intake pipe. Windsor, Ont.	8-24
9-15	Well, Sioux Falls, S. Dak.	8-24
9-15	Pump, Grand Forks, N. Dak.	8-24
9-15	Aqueduct, St. Rose, Que.	8-31
9-16	Pumping engine, Canton, Ill.	8-24
9-18	Engine, Springfield, Ohio	8-31
9-20	*Tank, etc., Fort Washington, Md.	8-31
9-25	*Filtration plant, Fairfield, Iowa	8-24
9-26	Water extension, Fort Sam Houston, Tex	8-31
9-29	Reservoir, Toledo, Ohio	8-31
10- 1	Tanks, Norfork, W. Va.	8-24
10- 1	**Pumping machinery, British India (Foreign)**	**8-10**
10- 2	Ditches, Powell, Wyo.	8-31
10-11	*Water-works, Colonial Beach, Va.	8-24

Sewers.

Bids close.		Noted in issue of
8-31	Sewer extension, Timmonsville, S. C.	8-31
9- 1	Sewers, Buffalo, N. Y.	8-31
9- 2	Drain tile, Peru, Ind.	8-24
9- 4	Sewers, Mitchell, S. Dak.	8-24
9- 5	Sewer, Newburgh, N. Y.	8-24
9- 5	Sewer, Wallingford, Conn.	8-24
9- 5	Drain pipe, Paducah, Ky.	8-24
9- 5	**Sewer, Westfield, N. J.**	**8-17**
9- 5	**Sewers, Clarksdale, Miss.**	**8-17**
9- 5	Sewers, Yonkers, N. Y.	8-31
9- 5	Drains, Boston, Mass.	8-31
9- 5	Sewers, Wichita, Kan.	8-31
9- 5	Toledo, Ohio	8-31
9- 6	*Sewers, Primghar, Iowa	8-31
9- 6	Sewers, Hamilton, Ont.	8-31
9- 6	***Sewers, Baltimore, Md.**	**8-17**
9- 6	Laying pipe, New Bedford, Mass.	8-24
9- 6	Sewer pipe, etc., Prescott, Ark.	8-24
9- 6	Sewer, Galveston, Ind.	8-24
9- 7	Sewers, Bucknell, Ill.	8-24
9- 7	**Sewers, Ansonia, Conn.**	**8-17**
9- 7	Sewers Bushnell, Ill.	8-31
9-11	Sewers, Columbus, Kan.	8-31
9-11	Sewers, Belle Plaine, Iowa	8-31
9-11	**Sewer, Lemore, Cal.**	**8-17**
9-11	***Sewers, New Orleans, La.**	**7-13**
9-11	**Sewer, Lake Charles, La.**	**8- 3**
9-11	Sewers, New York	8-31
9-12	*Sewers, Toronto, Ont.	8-24
9-15	Disposal plants, Rock Hill, S. C.	8-24
9-15	**Sewers, Terra Haute, Ind.**	**8-17**
9-28	Drain, Bethany, Ill.	8-24
10-11	*Sewers, etc., Colonial Beach, Va.	8-24

Streets and Roads.

Bids close.		Noted in issue of
8-21	Grading, etc., Tazewell, Va.	8-31
9- 1	Macadamizing, etc., Haledon, N. J.	8-31
9- 1	Paving block, Salem, Mass.	8-31
9- 1	Grading, Dayton, Ohio	8-31
9- 1	Soil work, Boston, Mass.	8-24
9- 2	Paving, Woodsfield, Ohio	8-24
9- 2	Macadamizing, West Allis, Wis.	8-24
9- 2	**Paving, Chile (Foreign)**	**7-27**
9- 2	**Grading, Newport, R. I.**	**8-10**
9- 2	**Road, Greencastle, Ind.**	**8-17**
9- 2	**Road, Evansville, Ind.**	**8-17**
9- 2	Sidewalks, Fayetteville, W. Va.	8-31
9- 2	Paving, Harrisburg, Ill.	8-31
9- 2	Road, Findlay, Ohio	8-31
9- 2	Grading, etc., Springfield, Ohio	8-31
9- 4	Paving, Portersville, Cal.	8-31
9- 4	Grading, etc., Logan, Ohio	8-31
9- 4	Walks, etc., Boston, Mass.	8-31
9- 4	Grading, etc., Santa Monica, Cal.	8-31
9- 4	**Roads, Rushville, Ind.**	**8-17**
9- 4	**Road, Decatur, Ind.**	**8-17**
9- 4	**Road, Huntington, Ind.**	**8-17**
9- 4	Road, Salem, Ind.	8-24
9- 4	Gravel road, Columbus, Ind.	8-24
9- 4	Road, Greensburg, Ind.	8-24
9- 4	Road, Vernon, Ind.	8-24
9- 5	Road, Winamac, Ind.	8-24
9- 5	Road, English, Ind.	8-24
9- 5	Road, Rockville, Ind.	8-24
9- 5	Road, Covington, Ind.	8-24
9- 5	Road improvement, Aberdeen, Miss.	8-24
9- 5	Repaving, Jacksonville, Fla.	8-24
9- 5	**Roads, Bloomfield, Ind.**	**8-17**
9- 5	**Road, Crawfordville, Ind.**	**8-17**
9- 5	**Roads, Logansport, Ind.**	**8-17**
9- 5	**Roads, Vincennes, Ind.**	**8-17**
9- 5	**Roads, Monticello, Ind.**	**8-17**
9- 5	***Street improvement, Westfield, N. J.**	**8-17**
9- 5	**Paving, etc., Cleveland Heights, Ohio**	**8-10**
9- 5	Paving, Stamford, Conn.	8-31
9- 5	Grading, etc., McConnelsville, Ohio	8-31
9- 5	Sidewalks, etc., Paducah, Ky.	8-31
9- 5	Roadway, etc., Boston, Mass.	8-31
9- 5	Street improvement, Braddock, Pa.	8-31
9- 5	Grading, Wakeman, Ohio	8-31
9- 5	Road, Santa Barbara, Cal.	8-31
9- 5	Road improvement, San Jose, Cal.	8-31
9- 5	Road work, Hartford, Conn.	8-31
9- 6	Sidewalks, fences, New York, N. Y.	8-31
9- 6	Grading, etc., Millersburg, O	8-31
9- 6	Grading, Waverly, Ohio	8-31
9- 6	Paving, Jacksonville, Fla.	8-31
9- 6	Paving, etc., Augusta, Wis.	8-31
9- 6	**Paving, Lewiston, Idaho**	**8-17**
9- 6	Grading, etc., Baltimore, Md.	8-31
9- 6	Road Monticello, Ind.	8-24
9- 6	Road Lafayette, Ind.	8-24
9- 6	Bridge, Barberton, Ohio	8-24
9- 7	Road, Newport, Ind.	8-24
9- 7	Road, Laporte, Ind.	8-24
9- 7	Gravel road, Camden, N. J.	8-24
9- 7	*Lock and dam, Louisville, Ky	8-10
9- 7	**Roads, Wabash, Ind.**	**8-17**
9- 7	***Paving, Johnson City, Tenn.**	**8-17**
9- 7	Paving, etc., Spokane, Wash.	8-31
9- 7	Paving, etc., Santa Barbara, Cal.	8-31
9- 8	Grading, etc., Ashland, Ohio	8-31
9- 8	**Road, Crownpoint, Ind.**	**8-24**
9- 8	***Street improvement, Huntington, N. Y.**	**8-24**
9- 9	Grading, etc., Mansfield, Ohio	8-31
9-10	Road improvement, Pittsburgh, Pa.	8-31
9-11	**Grading, New Philadelphia, Ohio**	**8-17**
9-11	Grading, etc., New York	8-31
9-11	Regulating, etc., New York.	8-31
9-12	Macadamizing, Hermosa Beach, Cal.	8-31
9-13	Paving, etc., Marietta, Ohio.	8-31
9-13	**Paving, Little Rock, Ark.**	**8-24**
9-15	**Macadamizing, etc., Columbus, Ohio**	**8-24**
9-15	**Road, Greenfield, Ind.**	**8-17**
9-15	Paving, Hill City, Tenn.	8-31
9-21	Road improvement, Pittsburgh, Pa.	8-31

Miscellaneous.

Bids close.		Noted in issue of
9- 1	**Submarine boats, Wash. D. C.**	**6-29** **6-29**
9- 1	***Dredging and filling, Minneapolis, Minn.**	**7-27**
9- 1	**Soil work, etc., Boston, Mass.**	**8-10**
9- 1	**Fence, posts, Portland, Ore.**	**8-17**
9- 1	**Ditches, La Marque, Tex.**	**8-17**
9- 1	Steel bars, lumber, Panama (U. S. Poss.)	8-24
9- 1	Plans for memorial gate, Madison, Wis.	8-24
9- 1	Trucks, rope, Panama (U. S. Poss.)	8-31
9- 2	Ditch, Rensselaer, Ind.	8-31
9- 2	Concrete tunnel, Maumee, O.	8-10
9- 4	Levee work, New Orleans, La.	8-31
9- 4	Drain, Maryborough, Ont.	8-31
9- 4	Steel rails, Ottawa, Ont.	8-31
9- 5	Canal work, Wichita, Kan.	8-31
9- 5	Ditch work, Emmetsburg, Iowa	8-31
9- 5	Revetment, San Jose, Cal.	8-31
9- 5	Steel tug, Toronto, Ont.	8-31
9- 5	***Dam, Fort Worth, Tex.**	**7-20**
9- 5	**Telephone material, Australia (Foreign,**	**7-27**
9- 5	***Dredging, Richmond, Va.**	**8- 3**
9- 5	**Dredges, snagboat, Charleston, S. C.**	**8- 3**
9- 5	**Tugboats, Brazil (Foreign)**	**8-10**
9- 5	***Softening plant, Muskogee, Okla.**	**8-10**
9- 5	Fire alarm system, New York	8-24
9- 6	**Dredge, Portland, Ore.**	**8- 3**
9- 6	**Additions to steamer house, Albany, N. Y.**	**8-17**
9- 6	Levee, Columbia, Ohio	8-31
9- 6	Dredging, Ashland, Ohio	8-31
9- 6	Asphalt, Cincinnati, Ohio	8-31
9- 7	Sanitary buildings, Boston, Mass. (Garbage)	8-31
9- 7	Building work, New York	8-31
9- 7	Railings, New York	8-31
9- 7	Spikes, etc., Toronto, Ont.	8-31
9- 7	**Monument, Princeton, Ind.**	**8-10**
9- 7	Snow and ice removal (Garbage), New York	8-24
9- 7	Cement, Council Bluffs, Ia.	8-24
9- 8	***Breakwater construction, Hawaii, (U. S. Poss.)**	**7-13**
9- 9	**Tramway, Spain (Foreign).**	**7-27**
9- 9	***Dredging, Wilmington, Del.**	**8-17**
9-11	***Breakwater extension, Buffalo, N. Y.**	**8-17**
9-11	***Dredging, Wilmington, Del.**	**8-17**
9-11	**Breakwater, Thessalon, Ont.**	**8-17**
9-11	*Wagon shed, Fort Terry, N. Y.	8-24
9-11	Repairing bath, New York.	8-31
9-11	Hose, piles, etc., Panama (S. S. Poss.)	8-31
9-12	Canal, Ottawa, Ont.	8-31
9-12	Steel rail, brass, Washington, D. C.	8-31
9-12	Steel plates, rivets, Panama (U. S Poss.)	8-31
9-12	*New channel, Clarinda, Ia.	8-24
9-13	Projectiles, Washington, D. C.	8-24
9-13	Breakwater, dredging, Port Stanley, Ont.	8-24
9-13	Pier, Wheatley, Ont.	8-24
9-13	Wharf, etc., Thornbury, Ont	8-24
9-13	Dredging, Wilmington, Del.	8-24
9-14	***Dredging, New York**	8-17
9-14	Lock tenders' houses, Mobile, Ala.	8-24
9-15	Railway roadbed, El Paso, Tex. (Rys.)	8-24
9-15	Dredging, Wilmington, Del.	8-24
9-15	*Removing rock, Newport, R. I.	8-24
9-15	**Railway construction (Rys.), Ottawa, Ont.**	**8-17**
9-15	Rip-rap, Washington, D. C.	8-31
9-15	*Wire fencing, Tacoma, Wash	8-31
9-15	*Subways, Toronto, Ont.	8-31
9-16	Retaining wall, Washington, D. C	8-31
9-14	*Dredging, New York	8-17
9-18	*Dikes, New York	8-31
9-19	Dredging, Donaldsonville, La.	8-31
9-21	Ditch, Thief River Falls, Minn.	8-31
9-20	*Dredging, St. Augustine, Fla.	8-31
9-21	*Dredging, Bridgeport, Conn.	8-24
9-22	***Dredging, Norfolk, Va.**	**8-24**
9-22	*Dredge, Wheeling, W. Va.	8-31
9-23	Structural steel, Cuba (U. S. Poss.)	8-31
9-25	*Metal lockers, Chicago, Ill.	8-31
9-25	Wharf, boat-house, Kingston, Ont.	8-31
9-25	Fire apparatus, Winnipeg, Man.	8-24
9-27	*Dredging, Washington, D. C.	8-31
9-30	Track, Norfolk, Va.	8-31
9-30	Sea wall, Norfolk, Va.	8-31
10-10	*Mail-handling apparatus, Washington, D. C.	8-31
10-10	*Mechanical eguipment, Washington, D. C.	8-31
10-10	Elevator plant, Washington, D. C.	8-31
10-17	*Garbage plant (Garbage), Paterson, N. J.	8-31

Examinations.

Examination date.		Noted in issue of
9- 6	**Geologist, Washington, D. C.**	**8-10**
9- 6	**Agricultural Inspector, Washington, D. C.**	**8-10**
9- 6	**Laboratory Aid and Engineer, Washington, D. C.**	**8-10**
9-21	**Fuel Engineering Chemist, New York,**	**8-24**

MISCELLANEOUS.

(Continued from Page 106.)

Dredging.—Ashland, Ohio.—Bids will be received until Sept. 6 for dredging work on the Jerome Fork Improvement No. 2.

+**Monument.**—Vincennes, Ind.—The Board of Commissioners of Knox County has awarded the contract for the erection of a Soldiers and Sailors' Monument to the TERRE HAUTE MONUMENT CO., at $46,500. There were two other bids. The work is to be started by Oct. 1, 1911, and completed by May 15, 1913. J. S. Spiker is Engr., Vincennes.

Ditch.—Rensselaer, Ind.—Bids will be received until Sept. 2 by W. Frank Osborne, Engr., Rensselaer, for constructing the Harvey J. Dexter ditch in Union Township, Jasper County. The work includes the following: Main ditch, 23,000 ft.; 8 ft. wide at bottom; about 9 ft. deep, slopes 1 to 1, excavation, 65,905 cu. yds.; four laterals, total length, seven miles; bottom widths 3 to 7 ft.; depth from 4 to 15 ft.; one lateral having a slope of 1 to 1, the others 1½ to 1; excavation in laterals, 108,998 cu. yds. The main ditch and Lateral No. 3 are floating dredge work. Estimated cost, $13,118. Five steel bridges will be required.

***Metal Lockers.**—Chicago, Ill.—The date of opening bids for metal wall lockers has been postponed from Sept. 1, 11 a. m., to Sept. 25. Bids will be received by Col. John L. Clem, Ch. Q. M., U. S. A., Chicago.

Ditch Work.—Emmetsburg, Iowa.—Bids will be received until Sept. 5 by J. R. Martin, County Audr., Emmetsburg, for furnishing material for constructing 45 sections of Joint Drainage District No. 63, Palo Alto and Pocahontas Counties, including open work to the amount of 1,140,320 cu. yds. and 228,205 ft. of tile, from 6-in. to 26-in.

+**Drain.**—Rockwell City, Iowa.—Contracts for Drain No. 143 have been awarded as follows: For labor, to HARRY McCAWLEY, of Lake City, Iowa; for tile, to LANESBORO CEMENT TILE CO., of Lanesboro, Iowa. Total cost, about $25,000.

Plans are being prepared by A. O. Anderson, Consult. Engr., Ames, Iowa, for the construction of Drain No. 149. Contract will be let in about one month. Estimated cost, $30,000. The size of tile required will run from 36 to 6-in.; depths, 8 ft. to 3.5 ft. The work is located three miles southeast of Lake City, Iowa.

+**Drainage Dist.**—Jefferson, Iowa.—Bids were received on Aug. 21, by the Green County Board of Supervisors, Jefferson, for the necessary labor and material for the construction of Drainage District No. 53, Green County. Ten bids were submitted, and the contract awarded to A. M. TANNER for the tile, at $10,073; and to WILLIAM ALLEN for construction, at $4,224.

Ditch.—Thief River Falls, Minn.—Bids will be received until Sept. 21 by A. H. Fasel, County Audr., Thief River Falls, for the construction of County Ditch No. 55, including 66,079 cu. yds. of earth excavation. Estimated cost, $9,558.

Canal Work.—Wichita, Kan.—Bids will be received until Sept. 5 by William Sence, City Clk., for extending the Wichita Drainage Canal. The work includes 224,766 cu. yds. excavation, 4.48 acres clearing, two concrete bridges, four pile bridges, two temporary bridges; also for a drainage ditch from the Wichita Drainage Canal at 19th St. to the intersection of Chisholm Creek and 21st st, including 13,000 cu. yds. of excavation, 1.5 acres clearing. Bert C. Wells is City Engr.

Revetment.—St. Louis, Mo.—Bids were received on Aug. 15, by the Board of Public Improvements, for revetment along the Mississippi River bank from St. Cyr Ave., extending 9,000 ft. north: Paul W. Grether & Co., $136,533; Rust, Swift & Co., $148,308; Fruin-Colnon Construction Co., $160,928; Dewitt & Shobe, $123,620.

Park.—Beaumont, Tex.—The citizens on Aug. 11 voted to issue $60,000 of bonds for construction of parks.

+**Dredge.**—Houston, Tex.—The Tesche Transportation Co., has awarded a contract to CLOONEY BROS. CONSTRUCTING & TOWING CO., of West Lake, La., for the construction of a dredge.

***Wire Fencing.**—Tacoma, Wash.—Bids will be received by the Metropolitan Park District until Sept. 15 for furnishing 10,000 lin. ft. of 88-in. woven wire fencing. The fencing shall be made of double galvanized, coiled steel wire and bidder must guarantee it against deterioration because of dampness or other climatic conditions. A section of fence ten feet long shall be submitted with the bid, prepaid. All prices submitted must be f. o. b. Tacoma.

Harbor Improvement.—Seattle, Wash.—Bids were received on Aug. 14 by Maj. J. B. Cavanaugh, Corps Engrs., U. S. A., Seattle for harbor improvements at Everett Harbor and the Snokomiah River, including dredging. J. M. Clapp, Seattle, at $113,414, was the lowest bidder for the construction of dikes. Tweeden & Jones, at 12.48 cts. per cu. yd., were lowest on the dredging bids, with the International Dredging Co., at 13 cts., the next bidder. The bid of the International Dredging Co., on the construction of the dikes was $118,170 and the Tacoma Dredging Co., submitted a bid of 13.4 cts. per cu. yd. on the dredging. The improvement, which includes the dredging of the river from its junction with steamboat slough to deep water in Everett Harbor and the repairing of the various dikes in the district, will add five miles to the present water front of Everett and will involve the expenditure of an appropriation of $280,000.

Park.—Monterey, Cal.—Preliminary sketches have been approved and working drawings have been started for a large waterfront amusement park at Hot Springs near Del Monte, Monterey. The plans include several large frame buildings, including a casino, bath-house, pavilion, museum, etc. All buildings will be of wood with cement plaster on metal lath exterior. William H. Weeks is Arch. The corporation is headed by H. R. O'Brien of Monterey, and the cost will be $250,000.

Revetment.—San Jose, Cal.—Bids will be received until 11 a. m., Sept. 5, by the Board of Supervisors, San Jose, for constructing concrete revetment on Guadalupe Creek on Almaden Road near Sycamore Grove. H. A. Pfister is Clk.

Harbor Impvts.—San Francisco, Cal.—The State Board of Harbor Commissioners has authorized the sale of $1,000,000 of bonds. This will be the first issue of the $9,000,000 voted for harbor improvements. With the $1,000,000 the Board proposes building three new ferry slips, to reconstruct ferry slip No. 7, to replace pier 17, Union St. wharf, and to construct a small gap seawall north of pier 36. The engineer has been instructed to prepare plans and specifications for this work. It is planned to build the new wharf on a reinforced concrete pile foundation. The shed will probably be built of wood.

Drain.—Maryborough, (Moorefield post-office) Ont.—Bids will be received by W. W. Scott, Township Clk., until 2 p. m., Sept. 4, for the construction of Municipal Drain No. 2 in the Township of Maryborough, containing about 43,000 cu. yds. of excavation. Plans, profiles and specifications may be seen at the Township Clerk's office in the village of Moorefield, or at the office of C. D. Bowman, Engr.-in-Charge, West Montrose.

Wharf, Boat House.—Kingston, Ont.—Bids will be received until Sept. 25 by R. C. Desrochers, Secy., Pub. Wks. Dept., Ottawa, Ont., for the construction of a boat-house and renewal of wharfs at Kingston Royal Military College. Plans, specifications and form of contract can be seen and forms of proposal obtained at Ottawa, or at the office of J. G. Sing, Dist. Engr., Confederation Life Bldg., Toronto, Ont., or Postmaster, Kingston.

Steel Rails.—Ottawa, Ont.—Bids will be received until Sept. 4, by P. E. Ryan, Secy., National Transcontinental Ry. Commissioners, Ottawa, for the manufacture and delivery f. o. b. cars Moncton, N. B., on or before Dec. 1, 1911, of 2,000 gross tons of 80-lb. steel rails. Specifications may be obtained from Gordon Grant, Chief Engr., Ottawa.

Canal.—Ottawa, Ont.—Bids will be received until Sept. 12, by L. K. Jones, Secy. Dept. Rys. and Canals, Ottawa, for improvements to St. Peter's Canal, Cape Breton, N. S. Plans, specifications and forms of contract can now be seen at the offices of the Chief Engineer, Ottawa, or Resident Engineer, Ontario & St. Lawrence Canals, Cornwall, Ont., or Resident Engineer, St. Peter's, N. S.

***Subways.**—Toronto, Ont.—It is the intention of the city to call for bids for the construction of double-track underground subways, approximately three miles in length, on or about Sept. 15. Intending bidders are notified to be governed accordingly. G. R. Geary is Mayor.

Steel Tug.—Toronto, Ont.—Bids will be received until Sept. 5, by G. R. Geary, Mayor and Chn. Bd. of Control, for the construction of one steel steam screw tug. Plans and specifications may be seen and forms of proposal obtained from the Water-Works Department, City Hall.

Spikes, Etc.—Toronto, Ont.—The time for receiving bids has been extended from Aug. 31 to Sept. 7 for the following: (a) 325 kegs track spikes, 200 per keg, size of spike 5½-in. × 9/16-in., measured under head; (b) 1,950 pairs of splice bars; (c) 9,500 tie rods, ⅞-in. diameter. Specifications and forms of proposal may be obtained on application to the Department of Railways and Bridges. Bids will be received by G. R. Geary, Mayor and Chn. Bd. of Control.

Grain Elevator Machinery.—Calgary, Alta.—The John S. Metcalf Co., Ltd., 54 St. Francois Xavier St., Montreal, Que., and Chicago, Ill., is drawing plans for additional machinery installation for the Globe Elevator Co. Calgary, to consist of a 10,000-bushel shipping leg, 2,000-bushel scale, shipping spout and appurtenances. This machinery is to go in the 250,000-bushel elevator built for the Globe Elevator Co two years ago by the John S. Metcalf Co., Ltd.

Pier.—Halifax, N. S.—The NOVA SCOTIA CONSTRUCTION CO. has been awarded the contract, it is reported, by the Government for building a pier 800 ft. long, containing sheds for the I. C. Ry. at Halifax, at $914,600.

+**Seawall.**—Victoria, B. C.—The contract for constructing the cemetery protection seawall has been awarded to the WESTHOLME LUMBER CO., LTD., of Victoria, at $73,963. Bids were received on Aug. 2.

U. S. POSSESSIONS AND CUBA.

Structural Steel.—Cuba.—Bids will be received until 11 a. m., Sept. 23, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the fabrication and delivery of structural steel for four buildings at the U. S. Naval Station, Guantanamo, Cuba.

Hose, Piles, Etc.—Panama.—Bids will be received until 2.30 p. m., Sept. 11, by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing hose and creosoted piles; also for furnishing vitrified tile, mandrels for tile, dynamite, calcium carbide and telephone cable, per Circular No. 645.

Trucks.—Panama.—Bids will be received until Sept. 1 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing 50 trucks, warehouse or cargo, equal to Fig. 2409, Style 278, Page 489, Fairbanks & Co. catalogue also for furnishing 25 coils of Manila rope, hawser laid, ⅝-in.; 1,200 ft. coils, six coils Manila rope, plain laid, 2½-in. diameter; 1,200 ft. coils, four coils Manila rope, plain laid, 3½ ins. diameter, and 1,200 ft. coils, to be in accordance with specifications appearing under Class 19 of Circular 630. Bidders should state net weight per coil of rope offered.

Steel Plates, Rivets.—Panama.—Bids will be received until 10.30 a. m., Sept. 12, by Maj. F. C. Boggs, Corps Engrs., U. S A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing steel plates and rivets. Blanks and general information relating to this Circular No. 646 may be obtained at Washington, or at the offices of the Assistant Purchasing Agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1086 North Point St., San Francisco; also from U. S. Engineer offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma.

INDUSTRIAL NOTES.

Mr. A. W. Wheatley, general manager of the Brooks plant of the American Locomotive Co., at Dunkirk, N. Y., has been appointed general manager of the Canadian Locomotive Co., at Kingston, Ontario.

The Alberger Pump Co., 140 Cedar St., New York, N. Y., has opened a branch office at 97½ Peachtree St., Atlanta, Ga., in charge of Mr. R. S. McMichael.

The branch at 503 Market St., San Francisco, Cal., is now in charge of C. F. Braun & Co., which succeeds the corporation known as Braun Williams & Russell.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogs recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins. and 9 x 12 ins.)

CENTRIFUGAL PUMPS.—The Dixon Cascade Pump Co., 17-21 Camfield St., Newark, N. J.; 6 × 9½ ins.; pp. 10; illustrated.

The advantages of a line of very small handy centrifugal pumps are set forth at length in this catalog.

BALL BEARINGS.—Standard Roller Bearing Co., Philadelphia, Pa. Paper; 7½ × 10 ins.; pp. 22; illustrated.

Grooved ball and thrust bearings and some of their applications are described in this bulletin, which contains a number of pages with sectional drawings of various types of bearings of this sort, with tabulated dimensions for shaft sizes ranging from 1 to 6 ins.

STEAM TURBINES.—Kerr Turbine Co., Wellsville, N. Y. Catalog 19 (Superseding Bulletin 18). 6 × 9 ins.; pp. 48; illustrated.

In this catalog the design of this particular make of turbine is set forth, together with statements of the advantages of the special features of design. The catalog gives tables of dimensions for the whole line. This turbine is manufactured in only comparatively small sizes.

WATER SOFTENERS.—L. M. Booth Co., 136 Liberty St., New York City. Stiff paper; 6 × 9 ins.; pp. 16; illustrated.

Water softeners with capacities of from 3,000 gals. per hr. to 10,000,000 gals. per day are illustrated in the first few pages of this catalog. The apparatus consists of tanks in which chemicals, usually quick lime and soda ash, are deposited once daily. A mechanism is provided in the tank for keeping the chemicals agitated and uniformly distributed through the solution. The chemicals are introduced into a central tube within the main tank and open at the bottom.

CONCRETE SILOS.—Universal Portland Cement Co., Chicago and Pittsburgh. Paper; 6 [illegible] ins.; pp. 88; illustrated.

What silos are for, why concrete is a suitable material for their construction, and how concrete silos are made (whether of the monolithic or the block type), are dealt with in this pamphlet. The form construction, the concrete and steel proportioning, and the cost of the work are among the subjects dealt with, and there are numerous illustrations of structures of this class. The pamphlet is intended specially for the farmer and the rural contractor, but there is much in it to interest the engineer and the general contractor.

For other Proposal Advertisements see pages

49, 50, 52, 53, 54, 58

of Advertisements and Construction News, page 108

LAYING WATER PIPE.

City of Pittsfield, Mass.

Sealed bids or proposals for laying water pipe in the City of Pittsfield, Mass., addressed to the Clerk of the Board of Public Works and endorsed "Proposal for Laying Water Pipe; Section 4," will be received at the office of the Board of Public Works, City Hall, Pittsfield, Massachusetts, until two o'clock P. M., Monday, the eleventh day of September, 1911. At the above place and time the bids will be publicly opened and read.

Pamphlets containing information for bidders, form of proposal, contract and specifications will be mailed to contractors who apply to the Engineer of the Board of Public Works, or may be obtained at his office or at the office of Hiram A. Miller, Consulting Engineer, 8 Beacon Street, Boston, Mass. The plans may be seen at either office.

The principal item of work is laying about 2,800 feet of twenty-inch cast-iron pipe. The printed form must be used in making bids. The right is reserved to reject any or all bids or to accept any bids.

WM. H. SWIFT, Chairman; ARTHUR H. RICE, EDWARD A. JONES, DANIEL ENGLAND, Committee on Water Supply; A. B. FARNHAM, Engineer, Board of Public Works.

STEEL TANK AND TRESTLE.—Ft. Washington, Md., Aug. 29, 1911.—Sealed proposals for construction 60,000 gallon steel water tank and trestle complete at Fort Washington, Md., will be received here until 2 P. M., September 20, 1911, and then publicly opened. Information furnished on application. 2D LIEUT. D. N. SWAN, JR., Qr. Mr.

Situations Open

(Or Vacant)

WANTED—For Havana, Cuba, all-round, first-class structural steel engineer as designer, estimator and checker of shop details; must be highly recommended, rapid and accurate; those not having had at least three years' employment in fabricating companies need not apply; permanent position and good future for right man; state salary expected. Address AMERICAN STEEL CO. OF CUBA, Havana, Cuba. 9-2t

Miscellaneous Wants

MECHANICAL engineer opening office in Honolulu wishes to correspond with manufacturers desiring representation there. Address "MECH. ENGR.," 3519 Wabash Avenue, Chicago. 9-2t

Your Proposal Notices In Engineering News

Reach the Largest Circulation in the Civil Engineering and Contracting Field